Digitized by the Internet Archive
in 2017 with funding from
CLIR

https://archive.org/details/alaskaspeciesacc00macl

S. MacLean

1964 - 1968

Species Accounts:

Birds:
Gavia arctica – Plectophenax nivalis

Mammals

S. MacLean

1964 - 1968

Species Accounts:

Birds:
Gavia arctica – Plectophenax nivalis

Macka
1964

Ojaia arctica

3 August Extremely abundant inland on medium-sized ponds. Downy young collected near N. end of Headrick. At least 2 other pairs with young seen.

Maclean
1965

Gavia arctica

16 June — 1 bird flew over high, going East.

21 June — Saw pair on Mosse River, W. of Village. ca. 150 m. from pair of G. arctica.

22 June — 1 flew over Holmes' Morass, going East.

6 July — Saw one go over Voth Creek, leases West.

Machea
1964

Chen hyperborea

18 June — One flying over marsh, circling low, E. Central Marsh region.

Chen hyperborea
is now
Chen caerulescens
as per
AOU 1998

Maclean
1964

Anas acuta

10 June — Pair flew over edge of Central Marsh, across Beach Ridge (flying West).
2 ♂ + ♀ on pond in Voth area.

15 June — 2 pr. on pond in Drum area. Others seen frequently flying over.

22 June — Nest w/ 5 eggs in S. Drum area

29 June — Nest w/ 6 eggs - at S. end of polygonal area W. of Miple Salt Lagoon.

4 July — Nest w/ 7 eggs - 150 (?) yds N.W of above.

17 July — 2 nests found presoted - SW. end of trapline # 10, and N of Micro-met.

Mackean
1964

Sandpiper

30 June — Flock of 17, coming from East. Lanes in pond between meadow lakes.

1 July — Flocks of ca. 30, 250, and 150 ♂♂, flying West. 2 ♂♂ flying SW across path of flock of 150. 1 joines flock, other continues to SW.

4 July — Flocks still very common - ca. 5 to ca 150 in each. 1 flock of 6 ♂♂, 1 ♀ lanes or pond in Central Marsh. 1 ♂ collected (Mackean 256).

20 July — At least 10 large flocks (150-250) plus numerous smaller flocks flying over point on clear, warm evening.

Maclean
1964

Clangula hyemalis

13 July — Micro-nest ♀ sitting very tight - approaches to 1 ft without causing her to leave.

17 July — Above ♀ deserted. Eggs cold, wet from previous evening's rain. 1 egg taken - no embryo.

19 July — Other 5 eggs checked - all without embryos.

29 July — Clutches of 6 (larger) and 11 (smaller), plus ca. 30 other adults on Upper Meadow Lake. Adult leg flicks away as predator (namely, me) approaches. When trapped next to bank all dove and disperse under water. Each came up for ca. 2 sec, dove again. Continues until away from predator. Pretty damn effective!

Mackay
1964

21 July

Falco peregrinus

Adult being harassed by pair of Pomarines on mound at corner of Beach Ridge, near C+G's shack. Stayed on mound at least 10 sec. as Jaegers dive bombed, then took off South, and never stopped.

On 19 July had seen the same thing at same spot. Bird was identified only as a falcon at the time, but probably this species.

Maclean
1965

Grus canadensis

3 July

Observed 3 birds in Central Marsh. One bird gave courtship dance, or some development thereof - obviously directed towards one other bird while ignoring the third. Bird would "bow" forwards for ca. 2-3 sec., then jump up and lean back, spreading wings somewhat. Repeated up to 6 times. No visible response from bird being displayed to or from third bird.

Maclean
1966

Squatarola squatarola

1 July — One bird feeding near golden plover by NE corner of Central Marsh.

Squatarola squatarola
is now
Pluvialis squatarola
per AOU 1995

Maclean
1969

Pluvialis squatarola

9 June — Dow and Bjorn saw several of these on Britton's Area.

13 June — 3 birds flew by over Gaswell Road, so. of F.A.A.. They remained much of the day in this area; Bill sketched them, and F.A.P. was bubbling over an aerial display he saw.

Mackay
1964

Pluvialis dominica

10 June — Individual seen on Beach Ridge; another near micromet. two simultaneously displaying ("Butterfly flight") ca. 150 yds apart over both area.

12 June — 3 flew over beach ridge in loose group (est. 10 ft. apart) - all singing.

15 June — Pair in Music Marsh W of Beach ridge.

Pair in central marsh (10:30 P.M.) - ♂ standing tilted forward - head down, ass up

♂ ♀ next to ♀, making (presumably ♂ vocalizing) high squeaking sounds, like quail chick, but more tone. Moves away ♀ ♀, then jumps on and copulates. ca. 4 min. later repeates copulation. both flew ca. 40 yards. 5 min - repeates ass-up display. No copulation observed.

18 June — Seem to be more on N. Beach Ridge area than before. Pair S. of micro-met; pr. E. of AACS.

Abundant and conspicuous E. of gasline. Frequently heard calling. Pair seen feeding in pond edge beyond cakecaker. More in drier marshes beyond.

26 June — Nest (4 eggs) on ridge of low-center polygon - SW ca 200yds. from S-met micro-met bldg, 5 ft. E of collapsed cardboard box on ground

Mackenzie
1964

Pluvialis dominica

29 June — Nest - 4 eggs - ca. 120 yds. W. of N. micro-met bldg. Shallow depression, lined w/ lichens.

2 July — Flock of ca. 15 birds near micro-met. One collected - Mackenzie # 248.

Copulation observed S. of Micro-met on beach ridge. No preliminaries - just hopped on, remained ca. 5 sec, flew 40 yds. away. May have been abbreviated by Stevens and Logsdon moving up from below ridge.

6 July — Flock of ca. 18 near group of 4 buff-breasts, 100 ft. west of 3rd. ditch in Pitelka's Plot. No association between species - remained in separate groups, 15 ft. apart -. 2 collected.

10 July — Several roaming flocks of 12, 10, and 18 in area.

13 July — Flock of ca. 7 in Voth Area.

18 July — Collected two juvs. - # 293, 294.

Maclea
1964

Pluvialis dominica - feeding observations

22 June 041 ♂

5P - 1 - 6A - 3L - 2 4 min.

run - stand - peck/jab - stand, run...

ca. 4 feeding attempts/min.

042 ♂

5P - 1 6A 3 2 2 1/2"

1 6A 3 3 2 1/2"

as before - 5/min. moves 40yds.

23 June 053 ♂

10A 1 4A 2 3 4 1/2"

ca. 8 feeding attempts/min.

075 ♂

4P 1 5A 3 3 2 3/4"

8/min. ser. of shallow jabs

076 ♀

4P 1 5A 3 3 4 1/2"

078 ♂

4P 2 3A 2 4 5"

7/min. ser of 2-6 shallow jabs

24 June 093

4P 1 6A 3L 4 2"

1 4A 3 ~~1~~ 2 2 1/4"

1 5A 3 3 3/4"

ca. 7/min.

26 June 103 ♂

9P 1 4A 3 3 5"

peck 1-4. ca. 12/min.

Maclean
1964

P. dominica - fencing

28 June

133

5P 1 5A 2 3 1/2"

135

5P 1 5A 3 3 1/4"

138

6P 1 5A 3 4 3/4"

peck - ca. 12/min.

29 June

149

10A 5 6A 3 2 5"

160

2P 1 5A 3 4 3"

frozen ground. peck

161

2P 1 6A 3 2 1"

164

3P 1 4A 3 4 1¼"

3 3A 3 4 1¼"

1 4AB 4 3 2"

5 -B — — ½"

peck.

165

3P 1 5A 4 2 1½"

5 -B — — 2½"

1 5A 4 2 1"

peck

---

1 July

171 (peck)

1P 2 5A 3 4 2½"

Mackay
1964

Pluvialis dominica

2 July 187

2P 1 4A 3 3 1"

peck

6 July 212

10A 1 5A 3 5 2"

1 6A 3 4 4½"

peck

8 July 232

10P 1 5A 3 5 2"

2, w/ ca. 6 ♂ m; 5 f.

10 July 237

10A 1 6A 3 4 1½"

" " " " 1½"

1 5A 4 4 { 4

4A 3 5 { 1

250

4P R 6A ~~3A~~ 3 4 5"

11 July 259

4P 1 6A 3 5 5"

flock of 10 ±

13 July 262

2P 1 5A 3 4 5"

group of 4.

Maclean
1965

Pluvialis dominica

28 May — First shorebirds seen! Two on Gasline Ridge, ca. 100 m. apart. Closer bird called as I approached, then flew toward other. Both flew short distance, then landed <10m. apart. Another lone bird farther down Gasline Ridge. Two birds standing quietly <2m. apart on Beach Ridge, just SW of CEREL wanigan.

12 June — are definitely paired and regularly spaced along N. edge of Wohlsag Slough. appear to be 3 pair (maybe 4) from CEREL area to Elson Lagoon.

13 June — As before - definitely paired and regularly spaced on dry, upland type tundra. Saw several birds in aerial display, but not whole heck of a lot.

14 June — Likewise - S edge of Holmes Morass. Easy to collect feeding data. Still not much display.

15 June — Not a display seen in miserable conditions.

16 June — Several pairs observed on territories, but no display.

24 June — Birds are consistently paired, regularly encountered, and occasionally heard displaying - nothing spectacular or particularly worthy of note. Numbers seem somewhat down if anything, but

Maclea
1965

Pluvialis dominica

not severely depressed.

26 June — Bird flushes just off Pitelka's Plot gave good distraction display - almost undoubtedly off a nest. Could not get back far enough in lousy visibility to allow her to get back on the eggs.

27 June — Flock of 6 plus black-bellied plover in AACS marsh.

29 June — Now ca. 11, associating closely in flight but dispersing while feeding.

Many birds in Central Marsh - non-breeders.

2 July — Found nest w/ 4 eggs ca. 250 m W. of micro-met on raised polygon.

AACS flock now numbers 23, sitting quietly over area of <50 ft. radius.

4 July — AACS birds are gone. DeBenedictis reports very large flock in SW corner of Central Marsh.

Found nest w/ 4 eggs by NE corner of Pitelka's Plot.

5 July — Nest w/ 4 eggs ca. 125 m. E. of CRREL wanigan.

6 July — Flock of 25 flying erratically over AACS + Micro-Met marsh. Very close association in flight. Dispersed while feeding, but remains within ca. ½ acre,

Maclean
1965

Pluvialis dominica

and flew and regrouped when this limit was reached.

Mackeon
1966

Pluvialis dominica

3 June — Lone ♂ on exposed mound in Central Marsh, near gasline Ridge. Flew several times, then displayed well. Very obvious "change of gears" as he went into display flight and began calling.

Saw 2 other birds - both alone.

4 June — No new arrivals - saw no birds on Beach Ridge or Pitelka's Plot.

6 June — Saw but 1 bird - this standing alone in Voth Area.

7 June — Pair flew into area South of cake eater. Stayed ca. 5 minutes, then passed on to NE. Interesting - appeared to be paired, but not localized, yet other arrivals unpaired. Suggests physical territory is not involved in pairing occurring on the mating grounds.

8 June — Pair feeding on polygonal area by AACS marsh - didn't seem too stable. Flew on to NE.

Pair in Britton's Area - not doing much.

9 June — Pair in ridge by West shore of Footprint Lake. Did not appear strongly territorial.

11 June — Sound of display over S. end of Beach Ridge reminded me that we just

Maclean
1966

P. dominica

16 June to 19 June

Birds are scarcer at Meade River than at Barrow, and occupy comparable habitat. Hang out and nest on dry ridges, but move to wet marshes and even lake margins to feed. Could, upon v. cursory look, detect no habitat difference between these and black-bellied plovers. Black-bellies are more often seen on dry, sandy ridges - but both use these to nest and feed to same extent, and both feed in wet marshes.

20 June

Went out to Voth Area and found nest (P.d. #2 - 4 eggs) that I has localized on the 13th + 15th - on east shore of pond west of lake esther. After first disturbance ♀ got onto nest. Could not find exact spot, so had to back off again. this time ♂ got on, and remained longer than ♀. Also saw a pair on Village Ridge and a pair N. of nest #2.

Saw a pair on high polygons north of Gasline Ridge - just where they should be. Got a few observations.

22 June

Birds are sparcer inland than in immediate Barrow area.

Maclean
1966

P. dominica

24 June — Birds appear to be still arriving and settling. It will be interesting to follow hatching dates. Saw a pair copulating East of CRREL wanigan. No evident preliminaries — ♂ just walked over from ca. 2 m. away, hopped on, immediate contact, remained <10 sec, then flew 20 m. away. ♀ resumed feeding, but remained in forward, hunched posture for the 15 additional minutes I watched these birds.

On Pitelka's plot - saw 2 birds in good plumage together. One flew into display, other flew to East edge of plot, about stake 14, and joined 2 others also in good plumage. Looked like 4 recent arrivals.

25 June — Pair in South Voth Area - both in good plumage - no sign of incubation yet.

27 June — Here are 3 pairs (or that many birds) in polygons between family lagoon and micro-met. Niko found one of the nests. Population of these birds made a marked late increase, and they are now normal or better.

Darrell Weaver points out a

Macleay
1966

P. dominica

4 egg nest behind Micro-Met.

29 June — Much apparently suitable habitat West of village, and pairs were regular, if not dense. I think density is limited by marshy feeding areas - certainly not by dry nesting habitat. Collected some feeding observations.

1 July — Niko and I each found nests - 3 and 4 eggs - by South end of Pitelka's Plot. Density is certainly not low any longer.

Flock of at least 10 - probably more - just East of CREEK wanigan. Very wary - could not approach. Birds were widely spread out in feeding, and did not group strongly in flight.

3 July — Flock of ca. 25 on East side of Holmes' Morass, near Elson Lagoon. Mostly just sitting quietly - refused to feed. Molt is not yet obvious in these birds. Could not get close enough to remove any birds to see if it is in progress — as I expect.

4 July — None seen in Central Marsh.

Plimoth Plantation

#1 18 June, 1 P. 3 eggs [illegible] Ridge [illegible] Meadow Brook.

#2 20 June, P. M. 4 eggs West of Cake Eater, in pond area. Nest on polygon ridge, near pond.

#3 25 June, 16:15, 4 eggs W. shore of Elson Lagoon, High polygon, ± 250 m. inland, near triangular marker.

#4 27 June 11:20 4 eggs SE side of Honey Bucket Lagoon

#5 27 June 1100 4 eggs - N. of Micro-met, on high polygon

#6 29 June, 12:00 4 eggs Pitelka's Plot

#7 29 June, 12:15 4 eggs Pitelka's Plot. S E. of #6

#8 29 June 16:35 4 eggs Across road at AACS.

#9 1 July [illegible]

#10 1 July - 1000 4 eggs - East side of P's plot, between traplines V + VI.

#11 [illegible]

#12 [illegible]

#13 [illegible]

#14 [illegible]

#15 [illegible]

Finches observations

6 July #9. Still 3 eggs - nest might be deserted N.V

9 July #9 deserted. 3 eggs were cold. N.V

#11 3 eggs removed by human predation 1 volume. Nest deserted. N.V

11 July #1 4 eggs at 21:30 N.V.

12 July #13 - 4 eggs, not sitting very close. 0100 - SN.

15 July #3 - 4 eggs

#1 - 2 young - nest, one outside, one could not find. N.V

#4 - fledged.

16 July #8 - 1 not young, 2 pipped eggs, one unpipped. N.V

17 July #3 - 4 eggs #5 - 4 eggs. N.V.

#13 - 4 eggs

Macken
1967

Pluvialis dominica

8 June — Birds were well scattered, but frequent, generally. Mostly pairs - pairsw W. Gasline, S. end of P's plot, N end of plot ... Displaying ♂ over W Gasline Pair - no reaction from ♀ offers.

9 June — Watches a pair on Beach Ridge NE of Micro Met - stood quietly with some feeding, but no reproductive activity.

12 June — Pairs are still spread out; Display not infrequent. Saw a bird on Village Ridge chase away a ♀ Pectoral - chased it about 40 feet

13 June — Birds are approaching 'normal' density - occupying new territory as it is exposed. Birds do not appear to be incubating yet.

18 June — Area East of Footprint Lake - birds are still quite active and do not appear to be incubating. Much display, and careful watch of territorial boundaries. Any trespass ⇒ instant chase, followed by display. Saw 1 'ass-up' which led to copulation. Unsettled birds were causing disruption - could they be just arriving ?! On the way in collected one bird that appeared to be the odd bird interacting with a pair. Turned out to be a ♂ w/ 15 mm

P. Dominica

[18 June] testis. (SM717)

23 June A pair S. of Family Lagoon was surely nesting - ♀ well along in molt - but would not quickly reveal nest location so I was satisfied with feeding observations.

Found a 1 egg nest on Village Ridge West of the CREEL Ice Well.

24 June Found a 4 egg nest in the Drum area, the ignoring of it all! Beautiful ♂ was incubating closely at 1130, and again when we returned in the evening. this and other birds indicate that it is now (finally) time to find some nests. It seems late this year.

In the afternoon a loose flock of ca. 12 birds was feeding in the East side of Central Marsh. After some trouble, collected 1 - a ♀ that had recently been incubating (good incubation patches - vascular). Her stomach was stuffed with Prionocera larvae. Either she has found a concentration of these or their feeding style favors selective feeding on Prionocera.

27 June Don and I found the nest on the aacs polygons - ♂ incubating on 4 eggs.

Maclean
1767

P. dominica

[27 June] We marked it with an alo stake.

28 June A loose flock of about 12 birds was again in Central Marsh. Collected 2 near Beach Ridge Crossing. (SM 743, 744 - ♀♀). Both stomachs had Pesicia larvae in greatest abundance, but also contained Prionocera.

30 June Central Marsh flock now includes > 30 birds, widely spread out in smaller groups. Collected 2 - SM 746 & 747.

Maclean
1967

P. dominica

10-13 June — About as last year at Meade River - birds were frequent in upland tundra, but left dry ridges to the black-bellied plovers. Repeatedly encountered nesting birds giving alarm note and/or distraction display, but flushed no young.

14 July — About 20 in a flock near Beach Ridge Crossing. Flock also included ca. 20 Cmm, 10 Ca, and 2 A.i. Collected 3. Flock was also scattered along East side of Central Marsh - probably about 40 birds.

15 July — Flocks were in the same places. More birds today: 30-40 near Beach Ridge Crossing.

Pair near AACS, to East, is still incubating.

16 July — Went out to trap trapping. Nest was hatching - we watched the first of the 4 crawl out of the shell. Left Tom there with the deadfall trap and drove to Pitelka's Plot to try the bow net. No luck with either. Tom left the trap set and went away from the AACS nest. The adults would not get on, and after 1½ hrs. the young were DEAD or nearly so. We probably caused nest failure here.

Machesa
1967

P. Dominica

[16 July] Next Dan and I drove out to the nest with 3 rigs near traplines III A - III B. Tried hardware cloth strips with monofilament loops. The birds went over them, but did not get caught. Next staked down 3 corners of a mist net over the nest, waited for the bird to sit, then threw the net over the nest. Success - caught a bird - probably the ♂. Fed it and prepared it for the trip to Fairbanks.

A flock is still in the area between AACS and the Beech Ridge crossing.

17 July

Macleay
1968

Pluvialis dominica

16 May — At 5:00 a.m. saw a pair (obviously ♂ + ♀) on Dryas fell-field plateau SW of camp, overlooking Cripple Creek. Birds were closely associated - ♂ (possibly both?) giving alarm calls. Remained ca. 5 minutes, feeding, then flew North and out of sight.

At ca. 9:00 a.m. flock of 5 (6?) in tight formation flew N-S over ridge and disappeared. Birds were flying rapidly and close to the ground.

17 May — Saw 3 birds feeding on the hill N. of camp ca. 2:00 P.M. All were in very good plumage and looked like ♂♂. Suddenly took off noisely and flew in a large circle around area, then returned to near former area.

18 May — Saw a bird in full display over Eagle Summit. Also saw tight groups of 6 and 9 fly rapidly over.

Same thing in the afternoon — 1 bird in full display, a loose flock dispersed over hillside East of Mastedon fork, and tight migrating flocks.

19 May — More of the same - territorial pairs with displaying males, but still many migrant flocks of 7-9 or so.

23 May — they seem to have left the area following yesterday's snowstorm. Saw but

Pluvialis Dominica

(23 May) a few birds in the area today. Several small groups flew rapidly by, and one group of 3 on the ground, but no obviously territorial birds, even on areas where I have seen display previously.

26 May Heard a little display today for the first day in many - but still saw flocks moving through. Many areas that look suitable are not occupied.

28 May As much display today as on any prior day. Saw two ♂♂ displaying simultaneously (→ ←) pass ca. 5 m. apart, then go on to display over apparently contiguous territories. Est. area of display covered ca. 200 m.

Macleon
1968

Pluvialis Dominica

26 June — these are less common than normal. thus far we know of a 4 egg nest near the west end of trapline IX, and this evening I found another 4-egg nest west of the middle section of trapline III B.

27 June — the nest by IX is empty. In retaliation I found a 1-egg nest west of AACS, ca. 40 m. South of the fork in the gasline. Weighed this egg - 31g - and put a "1" on it in pencil. the nest was attended by the ♂.

Near Micro-mer at least 4 non-breeders were found. gave alarm note to me, but tolerated other birds.

28 ~~May~~ June — At midnight (0000 this day) still 1 egg in AACS nest. At 1245 - 2 eggs. #2 weighed 27 grams - much less than #1. #2 is visibly smaller than the first.

the eggs in the nest near III B weighed 26.3, 25.0, 27.3, 26.9 g. the incubating (♀) bird was very concerned and came to within 2 m. of me as I weighed the eggs; I doubt that they are very fresh.

Searches other areas between Micro-Mer and Family Lagoon, and I'm satisfied that there are none there. there should be.

29 ~~May~~ June — Gasline Junction nest: at 10:45 and 1345 - still 2 eggs. At 1720 - 3 eggs; #3 weighed 26g.

Maclean
1968

Plwisdis dominica

1 July

A complete summary of the gosling Inst. nest:

27 June - 1200 - found 1 egg nest

28 June - 0000 - still 1 egg

1245 - 2 eggs.

29 June - 1045, 1345 - still 2 eggs.

1720 - 3 eggs

30 June - all day - 3 eggs

1 July - 0145 - 3 eggs

0930 - 4 eggs.

Egg weights: (field weights)

#1 - 31g

2 - 27g

3 - 26g

4 - 27.4 g

Σ = , $\bar{x}$ =

this could be the end of the story. Snow fell last night and this morning. Just after noon I walked out and had to dig around in ca 1½" of powder snow to find the eggs. No adult was in sight. I covered the eggs and left them.

2 July

Perhaps I spoke prematurely; today the snow was gone and the ♂ was incubating! If they hatch - it will be impressive - although the fact that the eggs were fresh will increase their chance of surviving. today they has to endure steady rain.

Macleay
1969

Pluvialis dominica

5 June — A few birds seen and heard on Britton's area.

6 June — A pair on Britton's Area. Perioo.

9 June — About the only species which didn't increase markedly in numbers today. Still, there are more in the area, and we saw good flight display for the first time.

10 June — Certainly no more, and possibly fewer, today.

14 June — they are quite scarse!

16 June — Some sign that they are increasing, although still not common.

21 June — I think they are still below 'normal' density.

Mackay
1964

Aranaria interpres

15 June — Bird by pond edge in Drum area.

Attacked passing pair long-tailed jaegers.

20 June — Abundant around periphery of "Holmes' Morass" - ca. 3 pr. S of Brant Point, 2 pr. in polygons W. of Brant Point. May be more. 4 birds S. of Point seem to lack territoriality; I moved from one end of group to other without causing aggression, etc.

21 June — Observed 2 pr. in polygons W. of Brant Point.

3 July — Birds collected in polygonal marsh near gas line (Mackay 251).

6 July — 2 birds flying with flock of 18 (♂) white-rumps. Flock observed ca. 20 min. - species remained associated throughout period. Both seemed to seek association - i.e. - Turnstones landed if white-rumps went down; vice versa. 1 collected (Mackay -).

10 July — 2 birds with flock of ca. 18 golden Plovers near stake 14 of Pitelka's Plot.

19 July — 1 adult with 4 chicks - looked very young - near O end of trapline III.

Maclean
1964

Overseas interpros

Testing observations

21 June (1) w. of Pow site

4P - 2 - 4A - 2 - 4

A 1/2 min. - jab : 1-2

(2) 5P - 3 - 4A - 2 - 5

1/2 min. - jab

22 June 038

5P - 1 4A 2 4 1/2 min

6 July 216

11A - 1 - 5A - 3 - 4 3/4"

pck

Mackay
1966

Arenaria interpres

2 June — Again - the first shorebird to be seen. Heard several by dump on road into town, then saw one flying very actively over shoreline.

6 June — Pair localized in Voth area - some chasing with "frog-note", but mostly quiet.

7 June — Pair in area just South of Cake Ester. Flew with flock of red-backs and gave "frog-note".

8 June — Pair in Britton's Area - jumpy, as usual. Displayed a little. One bird across from FAA, by Honey bucket Lagoon, and a pair by Cake-Ester. these, at least, are here in fair numbers. Wonder what they are eating. [A few turnstones are doomed!]

9 June — Pair still localized by cake ester.

Pair on ridge by West shore of Footprint lake. Not closely tied down to territory - flew with flock of red backs over large area.

10 June — Two pairs along Elson Lagoon. One pair chased away adjacent ♂. Niko located nest with two eggs - probably this pair. Eggs large, pointed, very green w/ little spotting -

Evening - along Brower ville Ridge,

Mackey
1966

Arenaria interpres

two pairs were settled near town. One pair was particularly active, chasing over over Village Lagoon and back onto ridge.

11 June — Methinks there is at least three pairs along Elson Lagoon N. of Wohlslag slough.

In the evening - along Elson lagoon between Wohlslag and Ukpik sloughs - good activity. First collected a pair ca. 400 m. inland from lagoon. ♀ (SM 492) had 2 ruptured follicles. Near corner of Lagoon and Ukpik Slough saw a burst of noisy chasing involving 5 birds at once. Did not take the time to untangle it, but it should be worth returning if Wohlslag Slough permits. Probably either 3 or 4 pairs in this pocket - clumped. None seen in North part of bare area, closer to Wohlslag.

13 June — At least two pairs active and noisy on Village Ridge.

14 June — Along Elson lagoon North of Wohlslag slough - found 2 new (4 egg) nests 40 m. and 150 m. South of #1 previously found! Even at these close distances birds remain loosely territorial. Four birds

Macken
1966

A. interpres

combined to chase two passing long-tailed jaegers, and a bird from nest #1 was at one time closer to nest #2 than either of pair #2, however twice territorial boundaries were enforced with brief chases. this bares further watching.

15 June — On village ridge - a ♂ reacted to Paul and I as if a nest was nearby. Never saw the ♀.

16 June to 19 June — Birds at Meade River are mainly associated with village dump. Do not merit close observation.

20 June — Pair around Lake 6 ater site range over wide area - would not reveal location of nest. Another pair seen on South side of Uoth creek.

21 June — Again saw pair South of Uoth Creek. Nest is on WEST side of road, although birds use EAST side of road to feed. Feeding in wet marshy stuff.

22 June — High population is limited to immediate coastal area. Birds were few and far between at latitude of Ikroavik and South.

24 June — Checked Elson lagoon nests - all O.k.. No sign of others, as

Machen
1966

A. interpres

previously suspected, S. of these.

26 June — ♀ found dead between lines 3a-3b — probably trap-killed. TC-62. Pair S. of Voth Creek crossing is probably nesting, but they range widely and refuse to reveal location of the nest.

29 June — Several pairs were seen in the village Drum area, but only one pair there after in high, well-drained tundra west of village.

1 July — 1 pair acting nesting near large lake between Wold slag and Ukpik Sloughs. Molt is evident in the birds now - I think more in the ♀♀.

3 July — Hatching of nests #1, 2, 3. Encountered very vocal pair on East side of Holmes' Morass, ca. 150 m. West of nest #3. Saw 2 of the young — very plain, greenish things. Went to nest #3 - empty; then to #2 - also empty. Pair ca. 25 m. away reacted violently to my intrusion. Nest #1 - 2 birds out of eggs and shells removed; 1 shell pipped; 4th egg no evidence of activity yet. Interesting synchrony in hatching of these contiguous pairs. Nest #1 - first nest found - was last

Maclean
1966

A. interpres

to hatch. 2 eggs 10 June - assume clutch completes 12 June → 21 day incubation period from last egg.

Characterized 3 nest habitats:

#1 - rp - d - 2/0 - A - 1/2 - Co

#2 - rp - d - 1/0 - A - 1/1 - Co

#3 rp - d - 0/0 - A

5 July All 3 nests have now hatched and birds have moved out onto Holmes' Morass. Note immediate abandoning of polygonal grounds. Color of chicks seems adapted more to marshy (green) area than to polygonal grounds (as, for instance, golden plover chicks).

6 July Nest #4 still not hatched.

Arenaria interpres - nests

#1 10 June 2 eggs - High polygon along bluff by Elson Lagoon, 1/4 mi. N. of Wohlsleg Slough.

#2 14 June 4 eggs - 40 m. S. of #1.

#3 14 June 4 eggs - 150 m. S. of #1.

#4 23 June 4 eggs . S.E Honey Bucket Lagoon on high polygon about 150 m. from shore.

Arenaria interpres - nest check

14 June — #1, 2, 3 all have 4 eggs. ♀♀ incubating. SH.

21 June — #1, 2, 3 each still have four eggs at 07:00 N.V.

24 June — #1, 2, 3 - each w/ 4 eggs - 1600 SH

3x June — #4 - still 4 eggs N.V.

2 July — #4 still 4 eggs N.V.

3 July — #1 - 2 out of egg, in cup; shells removed.
1 pipped
1 not yet started 2100
#2 - Cup empty - young 30-40 m. away.
#3 - cup empty - young 120 m. away.
Characterizes all nest locations. SH.

4 July — Egg still in nest at 11:00 N.V.

5 July — ♀ on the nest - 21:30 N.V.

6 July — 4 warm eggs - 2000

7 July — still 4 eggs at 14:15 N.V.

8 July — still 4 eggs at 18:00 N.V.

11 July — One wet young (+shells in nest), 2 pipped eggs, and a 4th egg at 09:00.

12 July — Four dry young at 16:45.

13 July — One dead young left in the nest (I collected it). Two young out of the nest and about 100 m. away.

Maclean
1967

Arenaria interpres

8 June — the first I've seen - although Case saw them earlier. Four flew by - one calling - while we were at W end of Gasline Ridge. Later saw 2 more by S. end of Beach Ridge.

10 June — Saw a ♂ S of FAA. Landed briefly on low polygon ridge in flooded region, then flew away calling. Did not appear to be settled.

Evening - a ♂ in the same area - again displaying. Maybe he is settled.

13 June — Found a 4 egg nest on far S end of Beach Ridge. Another pair E of the location of CBRE1 wary an - prob. not yet incubating.

Machesa
1968

Arenaria interpres

1 June — Saw 1 bird on the exposed portion of the Beach Ridge. Dave Norton reports that the birds are fairly common in the area - he collected 4 of them at the Dump.

15 June — Summary to date - turnstones are as common as I have seen them. there are many nests to be found, but we have made no real effort to do so.

26 June — a 4-egg nest just West of line III B, ca. Stake 4.2 or so. there is at least one more nest nearby.

27 June — Weighed the above eggs, although I don't think they are too fresh: 14.3 g, 14.4 g, 14.5 g, 14.1 g.

Macleay
1969

Arenaria interpres

4 June — Flock of these by the Dump.

5 June — Noisy, loose flock of ca. 15 ± in Britton's area.

6 June — the most numerous shorebird in the area. Saw several pairs feeding very actively in the small amount of exposed tundra at Elson Bluffs. Others flying by. The Britton area flock is now ca. 30 birds.

9 June — Still many birds, and they are dispersing to occupy new tundra as it is exposed. this could be a turnstone year.

10 June — these seemed to be less conspicuous today.

14 June — there is a nesting pair on the top of Beach Ridge, 3o. of FAA.. Saw them attack a passing Parasitic Jaeger.

6 July — the first nest known to hatch out today.

Maclean
1968

Aphriza virgata

16 May

At 5:00 a.m. sighted a long-winged shorebird flying WEST over Cripple Creek. Took off in pursuit and found a single surfbird on a Dryas and shale fell-field plateau. Bird looked at me from about 40 feet, then flew away to WEST.

Spent the rest of the day searching the ridges. Saw a total of 5 lone birds (some of these might be re-encounters of the same bird) plus 2 pairs (groups of 2, closely associated. Can't tell sex.). Most of these were standing quietly. All were on the Dryas fell-field, where they are v. difficult to see.

One member of one of the pairs, plus two lone birds, gave an alarm note which is very much like that of the baird sandpiper. It differs only in having a slight rasp at the end of the note. They also have a trill v. much like the call of bairdii. I was never close enough to definitely identify the bird doing this. Weeden reports that this often precedes the display described below.

One bird encountered on a windy Dryas fell-field gave a number of good baird-like ~~DISPLAY~~ alarm notes, then took off, rose to about 35 feet, and then

Aphriza virgata

(16 May) costes or set wings held fairly high - ⌐o - giving a gee - jewew call.

It completed about 10 calls in six seconds, covering a straight line flight of ca. 150 m., then dropped to the ground. the call was reminiscent of the tone and quality of a Western sandpiper - fairly deep and somewhat hoarse, and very Calidrine-like.

17 May I got skunked today. Saw none. Weather rotten - fog and falling snow on the ridges.

18 May Spent the morning watching display on Eagle Summit. No display as I walked out (away from Highway) at 3:30 a.m., but found a pocket of active display on the way back at 6:00 a.m.. Was first attracted by the baird-like flight note. this is somewhat higher pitched and shorter in duration (just < 2/sec.) than bairdii, but otherwise very similar. I approached and was able to see the display sequence at close view under several circumstances.

the display is given out over the deep canyons. the birds fly out from a ridge slope - thus the closest ground is lateral. they may fly >100 m. from the ridge. they cover much territory - one bird that I was able to follow

May
: re →.
sing now
and bairdii
play again, I
longer believe
s. bairdii is
higher pitched,
ration similar.

Aphriza virgata

8 May) covered > 1/2 mile in about 5 minutes of continual display. the display in its most intense form (seen when several birds were interacting) involves alternating series of the baird-like trill and a note that may be either je-jew or jew-et (these are variants of the note - not different attempts at rendition.). this latter note is remarkably like a white-rumped sandpiper - it has the same resonant quality. In the most intense display 7-10 baird-like trills were followed by 4-6 white-rump-like je-jews.

In the complete sequence - a bird rises from the ridge and flys over the canyon with shallow, rapid wingbeats. the first series of notes may begin at a low elevation, but the bird continues to rise, then circles or ∞ slowly over the side of the canyon. the vocalizations are given from set wings - held slightly above laterally. thus flap - baird note series - je-jew series ; flap... i.e - each series of calling is interrupted by a period of silent flapping.

In less intense display the je-jew or jew - it is given less frequently. I counted series of baird-notes upto 19 notes long - pause for flapping - then more baird-notes. the je-jew series may be occasionally

Aphriza virgata

(18 May) thrown in. If so - a full series of 4-6 of these is given, then pause and flap, then baird-note. i.e. - I heard display without je-jew, but never without the baird-note.

the white-rump-like je-jew is also used in ground display. At one point I heard the note coming from the ground behind a small rise ca. 40 m. away. When I topped the rise I saw one bird making a short flight (ca. 5 feet) toward another bird on the ground. When they saw me they flew so I did not actually see the ground display.

the focus of activity that I saw involved at least 2 ♂♂ displaying simultaneously plus 1 additional bird that did not display (I saw the 3 in the air together at one time). there were probably more, but I was most concerned with documenting the display.

In the one case that I clearly saw a bird land it did not hold wing(s) in air after landing.

In the afternoon I climbed the hill NE of Mastodon Fork. Found none there so I continued on to ridge to the East. Found a bird displaying off of the East of the broad saddle in the ridge. Saw it land in the rocky So. part of the saddle, ca. 1/4 mi.

Aphriza virgata

(18 May) from where I first saw it displaying. took the following sequence of notes:

1:35 P.M. Begin. Bird sat quietly on rock for 10 minutes. About once/2 min. gave quiet series of ca. 5 baird notes.

1:45 Suddenly perked up noticeably - although I noticed no external cause. Flew out over canyon WEST of saddle. Gave series of white-rump notes: 2(jewit) - 4(jd-jew) - flap - baird notes - w-r notes - disappeared against background of hill about 1/4 mile away.

1:55 Found bird ca. 200 m. from ↑ - probably same. Bird rose and gave series of w-r notes, then settled. gave occasional series of baird notes (ca. 5/series - lasting 3 seconds). Some feeding.

When ♂ l. longspur flew very close and landed 1 m. away surfbird leaned forward and jewit · 3(jdjew). longspur wasn't impressed.

gave sequence of 5 baird notes + 5 jdjews from ground.

3 b. notes + jew jd jew · 2(jdjew) ↖ noticed spasmodic throat movement in).

2:13 flew : jew 5(jdjew). landed ca. 150 m. away, back toward 1:35 location.

Maclean
1968

Aphriza virgata

(6)

(18 May) So.... (1) Can give display notes from ground.
(2) w-r note given in heterospecific aggressive context.
(3) w-r note can be given w/out baird note.
(4) no sign of another bird. this bird probably not paired. ∴ pairing probably occurs on breeding ground.
(5) In display covered 2 sides of an equilateral Δ of arms 1/4 mile.

In feeding this bird looked very calidrine, not charadriid. Also note that bird has narrow face and small eyes of calidrine.

Another bird was heard in the same general area.

19 May 0850 - bird displaying over area No. of Steese at Eagle Summit. Long soaring glide, even tho no wind. Landed 1/2 way up East face of hill No. of road.
0855 Located bird - doing nothing. Preened.
0904 gave full display note sequence from ground.
0905 flew - gave new flight note - single syllable - med. pitch - repeated ca. 6 times in 3 sec. Did not go on to display.

The soaring of these birds is very impressive. Because of the dark wing tips the bird

Maclean
1968

Elphriza virgata

(4 May) looks amazingly Buteo-like from below (until it flaps.).

Left this bird and went to No. face of hill just SE of road. From a distance I could see and hear activity near the ground. I climbed the hill and watched a giant 1/2 hour fracas involving up to 4 birds simultaneously. the basic event was a very active chase involving 2 birds. this was not really a chase in the sense of 1 bird trying to catch the other, since first one and then the other bird would lead. they would wheel actively around the area with 1 bird (which appeared to be slightly larger) giving the je-jew note or some variant of it, and the other bird giving a hoarse, higher pitched note. Upon landing one bird would approach the other in a forward posture with the scapulars raised. the other would either retreat in the same posture or take wing and the "chase" would be repeated. Occasionally a third bird would join in the ground activity, although flight involving 3 birds was always of short duration. Once, with two birds going at it below me a third bird flew purposively down from my left to join in. Immediately a fourth bird joined in from my right, so that 4 birds were involved. Most of what followed

Aphriza virgata

(19 May) immediately occured out of sight behind some rocks. When the birds became visible 2 flights were simultaneously going on within 12 feet of each other. the birds then broke off into 2 different "chases". I followed the more active of these. the other birds continues to enter the activity only occasionally. At this same time there was another bird sitting (literally) quite quietly above my right shoulder, and possibly a 6th bird over my left shoulder. Occasionally the ground activity would lead to a brief battle, followed by more chasing. I heard wing tips slapping on a number of occasions. this whole scene went on all around me for ca. ½ hour. Suddenly the two more active birds decided to go up into the air to display. the other birds also went up. I could not tell if both of the active 'combatents' were displaying, since there were several (at least 3) birds displaying simultaneously. the aerial displaying went on for ca. 7 min., then the birds disappeared around the South corner of the hill. I waited 45 minutes for them to return, but they never did.

Now - figure that one out! A shot -

Aphriza virgata

19 May) gun would have helped.

the significant point, I think, is that a number of birds were using this area of rocky slope, but none of them remained there after it was all over. Their social system just may be a complex one.

After this I could not find a surfbird anywhere on or by that ridge complex. Neither saw nor heard any until I found a pair (2 birds) sitting very quietly on the SE slope of Center Hill acting like perfectly normal, pair-bonded birds. They were feeding leisurely along the slope and were quite tame. They finally flushed and flew around toward the East slope of the same hill.

20 May Started up the road at 3:45 a.m. Reached Eagle Summit and climbed Puzzlement Hill without seeing or hearing surfbirds, although other birds were active. Went our ridge running NE from Puzzlement Hill, and at 0622 heard >1 bird displaying from So. side of ridge. Most of the noise was coming from the rocky slope. At 0630 found the birds — 3 of them again. Took the following sequence of notes:

0630 - 1 bird postures next to another. Wings sl. drooped; tail elevated

Macleon
1968

Aphriza virgata

20 May) showing light under coverts - leans way forward - sticks ass in other bird's face. No response. Quivers slightly, then relaxes. 3rd bird ca. 1 m. away ignores all this. Displayer (1) wanders away feeding. 2 follows loosely, feeding. Birds go behind sm. rock - emerge with 1 bird jajew'ing. I think this is 2 - bird just postured towards (I think 1 - posturer - is sl. smaller.). 3 sits quietly several minutes, then wanders towards others, feeding. All out of sight as I take notes. All 3 suddenly fly away low over ground - less intense than yesterday's "chase". two birds (2+3 ?) giving jew, jajew... I think 1 - not vocalizing - was feeding.

6:45 One bird displays overhead

7:30 One bird on same slope gave slight ja jew, then nothing.

7:46 flew across snow field to ridge ca. 150 m. away.

7:50 Now gone. Didn't see it leave.

8:10 Bird displaying over this area. flew until out of range of binoculars - ca. 1/2 mile across canyon and over another ridge. this area now apparently vacant.

8:22 A bird comes in high, displaying.

Aphriza virgata

> May) Swoops v. low over much of slope, then lands. Immediately another bird rises from ca. 100m. downslope - displays - disappears around the slope.

So.... again the ground display involves >2 birds, and there is no real sign of territoriality. And I still don't have a shotgun with shells to match, dammit!

Much less aerial display today - as yesterday. this rapid shutdown is more puzzlement.

Jerry saw 4 birds ± together on the ground on the back (SE) side of Central Hill - where I saw 2 birds yesterday. He says they weren't doing anything - just sitting quietly (ca. 5:30 a.m.)

21 May — Went around Center Hill in cold, very windy weather - saw none.

Sandy Kogl reported seeing two birds together - sitting quietly until flushed - on the slope SW of Puzzlement Hill.

22 May — Ca. mile 32 of Steese Highway - saw 1 bird on the road. Bird was quite tame. Noticed that the uppertail coverts of this bird were conspicuously spotted, not white. this relates to the behavior seen 20 May.

23 May — the local population seems to be down following our snowstorm. It could just be

Aphriza virgata

(23 May) that the birds were standing quietly, but I would have expected to have caused some alarm notes if this were so. Started out at 4:00 a.m. and didn't see a surfbird until 7:55. that was a lone bird on a ridge leading NE from Mastodon Dome. gave alarm note, then a brief je-jew sequence. ~~Finally~~ Flew out over adjacent canyon in very long glide, giving occasional alarm note, then disappeared around hill ca. ¼ mi. away.

1010 - found 2 birds sitting quietly on East face of Center Hill - ca. 2 m. apart. 1 of these (appeared slightly larger than other) giving alarm note in sequences of 3 and 4; other bird preening. 1015 - both suddenly fly around hill toward So, ca. 100 m. I follow - they fly ca. 300 m. more, and higher on hill - now on So. side, near top. Followed, but failed to find them. this appears to be the same "pair" seen here in previous trips to the hill.

Note - saw and heard no display today and covered much territory to find only 3 birds. It would appear that birds have left the area as a result of bad conditions, inc. snow-covered ground. It is clear that golden plovers have done so.

In the afternoon - around 4:00 - drove up to Eagle Summit and spent ca. 45 min.

Aphriza virgata

(23 May) looking and listening without signs of surfbirds.

24 May Again drove up to Eagle Summit in the afternoon but failed to hear surfbirds. John Thebirge encountered one along the road as he was driving up from Fairbanks today. (No recorder, Damnit!)

25 May Walked around So. side of Puzzlement Hill at Eagle Summit and encountered two surfbirds, closely associated, on the South side of the hill ca. 1/2 way up. they were on a typical rocky Dryas (and occasional Cassiope tetragona) slope, still partly covered by the recent snow. they were on the lee side - partly protected from the mean NE wind that was blowing cold. Watched these 10 minutes - they fed actively, eating frequently. Feeding was very calidrine-like - rapid series of jabs into slightly raised vegetation patches, with occasional tossing aside of vegetation, as in turnstones. After 10 min flew about 120 m. around hill towards SE - I followed. Fed there amidst small snow patches ca. 20 min, then flew up hill over a small ledge and out of sight. I followed and encountered 2 birds below the small crest where I had seen the birds disappear. 'Hmmm,' sez I, 'they must have circled back a little before landing', and I settled down to watch them feed.

Aphriza virgata

(25 May) Heard a surfbird alarm note, and watched closely to see that neither of these birds moved bill. Looked up slope and saw 2 more surfbirds ca. 70 m. away. These, I think, were the original 2; they had passed directly over the other 2 without eliciting any perceptible response. Sat for > 1/2 hour with all 4 birds in sight within 60 m. - closely associating in pairs. In this time there was no ~~response~~ interaction except that the lower pair stopped feeding and became attentive when 1 bird of the upper pair gave the alarm note softly. After 40 min. I decided to intervene. I walked down the slope and drove the upper pair toward the lower pair. They moved to within ca. 40 m., then flew directly over the others and circled toward the NW slope. The others merely 'ducked' when this pair flew over. So twice one pair flew over the other without eliciting any aggressive response. Looks like more evidence for lack of territoriality, or, at least, these birds were acting as pairs but not as if on territories.

When flushed one bird of each of these pairs gave je-jew note. The uphill pair did it while passing near the downhill bird, but I think it related to being flushed, not to the

Aphriza virgata

25 May)
26 May

other birds.

Started from camp at 6:45 and didn't see a surfbird until 9:15, when I was on a ridge at the So. edge of Weeden's Mastodon study area. this sighting was a pair on a tributary ridge L main ridge. I came over a hump and found them quite close together. they flew. Where they had been I found what looked like a fresh nest scrape as used in Calidrine nest-cup display - i.e. - slightly smaller and deeper than an actual nest, and obviously freshly excavated. Since there were also bairdii in the area I can't be sure that surfbirds were responsible but they may have the nest cup display. this pair flew and I was unable to follow.

On the next tributary ridge saw 3 birds and several golden plovers. As soon as I came into sight these separated into a closely associated pair moving with 1 golden plover and a lone surfbird. the pair flew away with the plover, but the single bird seemed attached to the area - it flew small distances, but would not leave the terrace on which I found it - ca. 200 m across. Wished I had

Aphriza virgata

26 May) the shotgun at that point; it may have been a ♀ (looked small) with a ♂ on a clutch nearby.

Continued - saw a pair ca. 1/2 mile further - may have been the pair of the 3 just seen. these flew back in that direction as soon as I found them.

In a saddle ca. 1/2+ miles beyond heard a pair in ground activity - i.e. heard jeejew coming from rocky slope. Here my attention was distracted making positive identification of buff-breasts, and surfbirds flew away without much watching.

Soon thereafter heard the only real aerial display that I heard all day, and this did not go on for long. Never dis located this (these) bird(s). Saw none in walking back. Walked along the hill forming SW border of Weeden's study area where I first saw surfbirds on 16 May.

28 May I shot the only 2 surfbirds I saw today. Went out early with the recorder and searched around Eagle Summit without luck. I was headed over the ridge running NE from Puzzlement Hill when the hailstorm hit and I was forced to

Aphriza virgata

28 May) go back. Came back again later and worked area NW of Steese Highway. Found a pair of birds by the edge of a snowfield on the NW side of the hill NW of the Highway at the Summit. These were sitting quietly, occasionally feeding, very close together (< 1 m.). When I shot 1 bird fell - the other jumped, but remained in the same spot until I shot it, too.

In hand the size dimorphism is marked. the smaller bird, the ♂, also had more red on the back, brighter yellow legs, and heavier spotting on the breast and sides. the ♂ weighed 146.5g; the ♀ - 193.4g. the ♀ had ova to 17mm (approx. - it was slightly damaged by shot), followed by 8, 6, and 5mm., i.e., she was getting ready to ovulate the first ovum in a day or so. there was no sign of dejeathering of an incubation patch in either bird.

Maclean
1969

Calidris canutus

17 June — A ♀ flew over me on the east side of the Drum area.

Macleon
1968

Calidris canutus

9 June — Saw a single bird - my guess is a ♀ - on the lagoon at the junction of Gaswell and Main Road. Bird was fairly tame - tom & I got photographs.

15 June — A pair on the ground as we did trapline III A snow and habitat transect. About 1 hr. later, as we were at III A, heard a knot in the air and saw 4 birds of knot size flying South high over Voth area, one calling persistently.

17 June — Again heard knots by III A, but was too busy to stop and search.

29 June — Ca. 6 knots in a flock w/ ca. 20 golden plovers and 15 pectorals in Central Marsh, West of Pitelka's Plot. they were right out in the wet stuff.

Maclean
1964

Crocethia alba

10 June — Presumed pair seen on Gasline ridge.

11 June — None seen in Drum area.

Crocethia alba
is now
Calidris alba
per AOU 1998

Maclean
1965

Calidris alba

12 June — Pair observed feeding actively on polygonal grounds at E. end of Holmes' Morass, 200 m. N. of mouth of Wohlstag Slough. Feeding very rapidly - appeares to be series of rapid jabs.

13 June — Observes 1 [redacted] (possibly 2) bird(s) near camp end of drum area. Bird seen feeding. Immediately thereafter bird seen chasing baird's sandpiper close to first observation.

14 June — 1 bird seen feeding ca. 50 m. South of 12 June observation. Again feeding rapidly and silently. Few calls in flight.

15 June — Hamilton reports hovering bird in drum area. Probably giving call, but sounds obscured by wind. Went out in evening - saw bird chasing C. bairdii very actively for ca. 200 m.. Flew back to orginal spot. Saw much less color in breast than Peterson shows. Collected the beast - put up by DeBenedictis. #

Carduelis alba

1 25 June, AM 4 eggs. home polygon. E side of Honey Bucket polygon.

C. alba - check

27 June #1 4 eggs female present N.V.

30 June #1 ♀ sitting SH

2 July #1 4 eggs ♀ not present 14:15 N.

♀ sitting 16:15. N.

4 July #1 4 eggs ♀ not present 11:15 N.

5 July #1 4 eggs ♀ not present 21:15 N.

6 July #1 4 eggs ♀ sitting, but got off when observers ca. 70 m. away. 2000 SH

7 July #1 4 eggs ♀ not on at 13:50. Eggs felt warm. ♀ 13.5 g returned to nest. N.

8 July #1 4 eggs ♀ not on at 13:00. N.

9 July #1 4 eggs ♀ not on at 16:15 N.V. [illegible] about 50 m N. singing on a [illegible]

10 July #1 4 eggs ♀ on nest at 12:00. N. [illegible]

11 July #1 4 eggs, ♀ not on at 10:15 N.

12 July #1 1 pipped egg, 3 dry young at 14:20. Took picture of the nest and then took 2 young out of the nest. ♀ female went back on the nest after I left.

Macleay
1967

C. alba

7 June — a newly arrived flock of about 16 sanderlings was feeding v. actively at Nuuuk. Birds were feeding in melt ponds on sphagnum-dominated tundra - jabbing into water about 4 cm. deep. Birds were obviously visually searching. Wanted to collect, but found I had 12 ga. shells for the 16 ga. shotgun.

8 June — a lone bird was collected on P's plot - a ♂. Bird was gleaning the top of a wet mound, between flooded channels.

10 June — watched a flock of ca. 8 widely spaced birds feeding around edges of melt pond in gravel by 10th Road Intct!

Calioris alba

7 June — Saw 4 birds (possibly 2 birds seen twice) amongst flock of turnstones on Britton's Area. Feeding.

6 June — 2 birds in Britton's Area.

9 June — At least 6 in Britton's Area. Unlike the other Calioris sp. these showed no interest in displaying or otherwise feeling the effects of the sudden onset of spring - they fed actively in a tight flock.

10 June — At least 12 in Britton's Area. I was struck by the variation in plumage; 1 bird was very bright, others were rather dull.

11 June — they are dispersing as tundra opens up to south, along Gaswell Road, but still mostly associated in flocks. Pitelka saw a ♂ in nest-cup display on gravel No. of Britton's Area.

13 June — Several pairs around T.A.A. and Britton's area act as if they may be breeding.

Ereunetes pusillus
is now
Calidris pusilla
per AOU 1998

Maclean
1964

Erennetes pusillus

10 June — 3 displaying ♂'s between AACS and Drum area. little interaction. After 15 min. one singing over entire area; others gone (?). 2 displaying over gasline ridge.

Evening - 1 display heard over Voth bluffs. Otherwise - nothing!

11 June — 1 on ground E. of High Explosives dump (drum area) - silent feeding 1 min. - flew 40 ft, gave trill. Flew 100 yds - aerial display for ca. 15-20 sec.. Fly up to 20 ft - glide, then give "twittering" trill with wings nearly level, vibrating at about same frequency as trill note (connection between muscles causing wing vibrations and sound?) Heard same (?) displaying ca. 150 yds NE.

5 min. - back, feeding. Flew 100 yds N - short aerial display (< 5 sec.) 1 min - 2 SP back. 1 approaches other - tail up 45° . Raises 1 wing 60°, then other . Other bird flew 60 ft; displaying bird follows; leaves 1 ft. away, separates as before. Aggressor flew off rapidly, displayed 10 ft. above ground, drove off in truser. Neutral bird follows. Both leave 150 yds. SE.

Nest w/ 4 eggs (SP-1) located - center of polygon in low grass. Fairly deep (ca. 1½") cup lined with grass, few lichens. Deeper, better protected, better lined than Bairds. ♀ gave twitter trill ca. 40 ft. away - no distraction display. Flew when approached. ♂ came, joined in trill. ♂ harsher,

11 June (cont) less musical trill. Came to within 15 ft.. Drove away intruder from West (to near water line). 1 more persistent in trill than other. Wait a minute - this is another pair. Walkes toward nest - ♀ flew off, ♂ displayed.

Found SP 2 - 4 eggs ca. 100 yds. W. of SP 1, 50 ft S of corner of obs hut. Marked with ax.

this pair - possible precopulatory ? behavior. One bird approaches other - tail 45° up, 1 wing up and quivering. Now both wings up. Other bird facing: touches bills. Neutral bird flew 5 ft. away; other enacts display.

two birds - both with wings up - quivering. Fighting - pecking with bills. Cont. 15 sec - 1 flew away - other short display.

12 June Raises wing ground display N. of E-most AACS bldg.. Birds flew ca. 30 ft. - repeated. No apparent response from neutral birds.

13 June Much activity in Marsh between Pond and Fresh Lake. Display - motor boat ..... glide. More MB than glide. Length of MB variable - 2 - 20 sec. glide ca. 2 sec.. No sound during glide. Tail appears to be same ff as wing beat. Connection?

Chases nearly constant, involving 3 or 4 birds. 1 never involved. At least 3 displaying ♂♂. Often chase, 1 drop out and display, then rejoin chase. Impossible

13 June

to determine pattern, boundaries, etc. to interaction.

1 ♂ displaying alone; not taking part in chasing. this, along with presumed ♀, giving wheet-a trill, like slow motorboat display - ca. 40% of time. Found SP-3, this pair. 4 eggs. Deep cup (est. 2½") well lined with grass. Very well hidden in bent grass. On S. side of low polygon ca. 6 ft. across. Marked w/ black flag 6 ft. E, small stick just above.

Found SP-4 - 4 eggs - on flat, mesic, homogeneous tundra. Moderately hidden. Distraction display from incubating bird - tail down and fanned. Wings held somewhat away from body, but not full out. Birds 100 yds. Nest marked with white plastic bottle on line w/ nest + T-bar like bldg.

Evening - ♂ displaying just beyond bend in water line. Mainly whinny display. May have ♀ on nest.

♂ SP-2 - short motorboat display.

♀ SP-2 - flushed at 10 ft. very well developed distraction display - tail down and fanned, body horizontal, wings in, "hunched" posture. Shuffle through grass, squat down almost out of sight. Shuffle when approached. ♂ flew over and perched next to crouching ♀. Followed as she moved. both chased away by ♂ from region of SP 1.

Calidris pusilla

13 June (cont) Believe ♂ incubating SP 1. Very different distraction. Flushed at 25 ft.. Display more vocal than postural. Squeeling - almost mammal-like sound. Flew short distance (5 ft) and resumed squeeling. Went back to region of nest, stood ½ min.. Chased displaying ♂ ESE. 150 yards, then back to nest and on. Short motorboat display or way back to nest.

♂ in full display just East.

Pair 50 yds. behind lab. Wheat-a, then flew E. One flew 150 yds; other 200 yds.

15 June Still much activity in drum area - ♂♂ displaying and chasing. Saw ♂♂ chasing both Pectoral and Baird's.

Distraction display from non-incubating bird - repeated 3 times, each time from another direction. Moderate intensity.

Marked 2 eggs of SP-2 with line 11 grams, → right.

18 June 2 birds feeding in mud of Voth creek. Another 2 on upland beyond cake-eater. 2 pr. seen in Brownsville.

20 June Concentration found around polygonized ground ▨ E. of Pow Sight, ca. 50 yds. from Elson Lagoon.

25 June 1 displaying ♂ - N. end of Holmes' Flat.

Maclean
1964

C. pusillus

28 June — 6:20 P.M. - Semi. Pal #1 - nest in Drum area - 1 chick out of egg. Still nest shell removed. 2 eggs - shell broken through, cracked. 1 egg - pipping - no crack or hole.

29 June — 5:00 P.M. - all chicks out of shell. 1 in nest cup. Shells removed. Other 3 chicks not seen. 12:00 midnight - nest cup empty. 1 chick 10 ft. away - others not seen. this chick attended by 1 adult - neither gave alarm calls.

8 July — Renest of pair SP 2 - found 21 June ca. 50 ft from old nest cup (abandoned or lost after eggs marked) now hatched (?) - 3 egg's gone - no shell. 1 egg still present, cold. Taken - no visible embryo.

10 July — Chick (Maclean - 270) taken from E. end of barrel area (1 6A 3 3), near pond edge. At least 2 others with several adults. At least 3, and probably 4, adults in immediate area of chicks giving alarm calls, flying excitedly.

nclean
964

Calidris pusillus

15 June

#	Location	time	Habitat	Observation
1.	Drum area	8:55 A.M.	Brown-top polygon	Moved along polygon ridge. Occasional peck.
2	"	8:56	Polygon ridge	Stood - no feeding
3.	"	9:04	Pol. Ridge above small pond	Preened twice - no feeding
4 (SP-2)	"	9:05	Pol. slope - low grass	Scratched
5	"	"	Brown-top polygon	stood
6	"	9:08	Pol. Ridge - low veg.	Peck twice - flew + Motor boat display
7	"	9:13	Pd. top - low veg.	Not a damn thing.
8	"	9:15	Broken pd. gr no - uneven veg.	Pecked at ground and base of vegetation.

c/sea
964

C. pusillus 15 June (2)

9	Drum area	9:15 A.M.	Broken pol. grass-trough	Pecked in trough. Moved ca. 2 m.
10	"	9:17	"	Pecked in trough- moved ca. 1 m.
11.	"	9:20	Brown-top polygon	Stood facing wind
12	"	9:22	Pol. Ridge	pecked once- moved 1 ft.
13	"	9:24	"	stood, facing wind
14	"	9:33	low pol- low veg.	Pecked ca. 5 times. Moved ca. 1.5 m
15	"	"	Brown-top pol.	Pecked 3 times- moved 1 m. onto low veg.
16.	"	"	Pol. slope- low veg.	Pecked ca. 8 times- moved 3 m. to med. veg.

acfean 964 — C. pusillus — 15 June

17	Drum area	9:42 A.M.	edge of brown-top pol.	Pecked along border of brown-top + low veg.
18 pr.	"	3:26 P.M.	Brown-top polygon	Standing 5 ft. apart, facing wind. ♂ preening

♂ chases ♂ pectoral, returns. ♂ pectoral come back, lands 1 ft. from ♂ S-P.- Head down, "battering ram" display. SP flew 20 ft. to ♀ SP. Pectoral remained.

19	Gaslin ridge	4:32	Pond-edge, Polygon trough.	Pecking
20	Beach Ridge, near micro-rel	6:05	mesic (?) meadow tundra	

release 1964

C. pusillus

17 June

1.	Drum area	8:39 A.M.	temporary melt pond	pecking at veg. at water edge
2	"	"	"	" (different pond) chased by ♂
3	"	8:45	Brown-top polygon	calling (to me)
4	"	"	"	few pecks. Ran along pol ridge - few pecks.
5 ♀	"	8:52	Bare weasel track	Pecking
6 ♂	"	"	low veg pol.	standing, calling.

nest - 70 yds. SW of Canvas hut. 4 eggs. exposed. lines with grass. as ♀ approaches, ♂ tries to copulate. ♀ flew, ♂ followers fight, the 2 ♂♂ chase ♀.

8 ♀	"	9:07	low veg - dist. grns	♀ pecking in nest approach.
8	"	"	weasel track	"

Macka
1964

C pusillus Tessing observations

21 June (8) 5P - 1 - 4B - 2 - 3
peck 2 min.

23 June 068
3P - 5 - 4B - 2 - 1 1/4"

079
5P - 5 - 1B -- - 3 1/2"
peck v. shallow jab

090
5P 1 5A 2 4 1/4"
weasel track.

28 June 118
2P 1 5A 3 5 2½"
peck
1 5A 3 5 1/4"

122
3P 3 5A 2 5 1/4"
3 4A 2 5 1/2"
3 5A 2 5 1½"

3 July 196
4P 7 1B — — 3/4"
" 1½"
" 3/4"
" 5"
peck

9 July 236
4P 1 4A 3 5 5"
peck

Maclean
1964

C. pusillus - fasing

10 July

243

11A	1	5A	4	4	5"

244

11A	1	5A	4	4	5"

11 July

255

3P	1	4A	3	5	4"

Calidris pusilla

Maclean
1965

Calidris pusilla

11 June — One seen at S. end of drum area.

13 June — Several seen feeding and chasing in drum area. Little display as yet - very surprising, since my memory of past years has these one of earlier displaying birds. Last year had 2 completed semi-pal nests on 11 June.

14 June — Nothing in Holmes' Morass.

16 June — 2 seen feeding along pond edge between Brant Pt. and Wohlsteg Slough. No display seen or heard.

19 June — Most abundant in Voth area than any other area yet found - second to Red-backs there. Very brief bursts of display - no more. 1♂ collected after feeding observation - #098. Another bird also collected feeding in same habitat - not directly observed.

21 June — three pairs encountered in MACS - micro-net marshes, plus one stray bird who was made to feel unwelcome. Semi-pal pairs were pecking along pond edges, staying close.

24 June — Same three pairs observed - still see both birds together. Aerial and ground display seen. Birds frequently stop while feeding to call, then resume feeding.

Maclean
1965

C pusillus

25 June — Same - abundant and consistent from drum area to micro-net. Display heard thru area by corner of Beach Ridge.

1 July — Found nest w/ 4 eggs ca. 50 m S. of Jamesway Hut at end of Drum area. Another pair by fork in gasline to POW site refused to divulge location of nest. Smart --- birds.

2 July — Checked for nest of stubborn pair — could flush no birds in area. Could have been from nest ca. 100 m. away.

4 July — Found nest w/ 4 eggs ca. 150 m. W of C+GS, on E edge of drainage cut across Beach Ridge.

7 July — Ca. 4 birds feeding along edge of upper Voth Creek - obviously non-breeding. Collected observations, but no birds.

We now have a total of 21 nests. Paul is working diligently and well on these. They are definitely more numerous than last year - quite abundant in local concentrations, but scattered out suitably dry nesting sites.

Maclean
1965

Nests - C. pusillus

#				
1	25 June	Britton Area	3 eggs	3rd loss date.
2.	26 June	Britton Area	4 eggs	
	9 July			colo. w birds seen
3.	26 June	Barrel area	2 eggs	
	29 June		3 eggs	
4.	26 June	Barrel area	2 eggs	
	1 July		2 eggs	
5.	27 June	Barrel area	4 eggs	
6.	27 June	Barrel area	4 eggs	

Maclean
1965

Nests - C. pusillus

Nest #			
7.	27 June	Cake Eater	4 eggs
8	27 June	Cake eater	4 eggs.
9.	28 June	Voth area	4 eggs
10.	29 June	Voth	4 eggs
11.	29 June	Micromer Marsh	3 eggs
12.	1 July	Micromer marsh	4 eggs

Maclean
1965

Nests - C. pusillus

Nest #			
13	1 July	Micromer Marsh	4 eggs
14	28 June	MicroMer Marsh	1 egg
	29 June		2 eggs
	30 June		2
	1 July		3
	2 July		4 eggs.
15.	1 July	Micromer Marsh	4 eggs
16.	2 July	Barrel Area	4 eggs
17.	4 July	Britton's Area	4 eggs.

aclean
1965

Nests - C. pusillus

Nest #			
18.	7 July	Voth Area	4 eggs
19	7 July	Cake-Eater	2 eggs
	8 July		3 eggs
20	7 July	Britton area	3 eggs.
21	4 July	C + G.S.	4 eggs.

Calidris pusilla

Maclean
1966

Calidris pusillus

6 June — First returns – heard one displaying over gasline ridge, then two pairs localized in recently exposed ground in Voth area. Both ♂♂ displaying well – noble sound. Couldn't get close enough to take any.

7 June — Saw one feeding bird south of cake-eater for one big observation! At least a pair just West of gasline road. Collected 1 – a ♂ (SM 487) – interesting stomach – very different from redbacks. Must remove more. Another ♂ from this area flew out towards Britton Area, displayed, and disappeared.

8 June — Two bursts of display in Drum area. Very little exposed ground – probably not enough to support any serious breeding activity. None seen along Beach Ridge.

In the evening went to Voth Area and saw activity involving 3 ♂♂. No real interaction. Watched a pair by East side of road – just mucking around in disturbed ground.

9 June — Voth area – watched above pair, plus another ♂ 40 feet away trying to get in on the act. Surprising that the

Maclean
1966

C. pusillus

pairs ♂ tolerated the other so close. Other came in and attempted copulation with no noticeable prelude. ♀ appeared receptive, but affair was cut off by pairs ♂. Only a short chase, then both ♂♂ settled on snow ca. 40-50 ft. apart, w/ ♀ feeding along snow bank. Resident ♂ approached ♀ in ground display - tail cocked, body forward. Interrupted by other ♂ - another short chase. Collected ♀: she had just completed the clutch. She has been feeding steadily, but nothing of value in the stomach. This, plus tolerance of other ♂ suggests that the birds are hunting for food again

Maclean
1966

C. pusillus

20 June

Birds are very active and conspicuous over Voth Area — even more so than when I left for Meade. Saw two v. intense chases involving 4 birds over lake & ater, frequent displays over large area. Usually >1 bird could be heard at any given time.

Birds were <u>not</u> seen in area of gasline ridge. Distribution is strongly clumped.

Calidris pusillus - nests

#1 - [illegible] - [illegible] in polygon at ground.

#2 14 June, A.M 4 eggs - Drum Hea, 50 m E of [illegible]

#3 15 June, 2:00 3 eggs - Drum Hea, 5 m N of telephone line [illegible]

#4 16 June, 15:00 - 3 eggs - Drum Hea, nest on mound, [illegible] of [illegible]

#5 [illegible] 4 eggs South Ridge, nest on [illegible]

#6 29 June 11:00 4 eggs - E. of CAMBELL, nest on mound

#7 30 June, 17:30 - 4 eggs - Drum Hea + [illegible]

#9 2 July 14:00 4 eggs, nest hard with grass lining, near Little Whimbrel.

#9 10 June, 21:00 3 eggs Drum Hea, between telephone line and main gravel pit (replacement)

#10 1 July 21:00 3 eggs, at telephone pole 20. Drum Hea

#11 2 July 21:20 4 eggs at telephone pole 15 Drum Hea

#12 6 July 10:30 3 eggs between P's Plot & USCGS cabin.

#13 7 July 13:55 4 eggs. E. of [illegible]

Caloris pusillus

15 June — #1, 2 each have 3 eggs. N.V.

16 June — #1, 2, 3 each have four eggs N.V.

17 June — #4 has 4 eggs. N.V.

25 June — #2 - 4 eggs - placed yellow stake.

26 June — #3 - 4 eggs, female flushed NV

29 June — #3 relocated nest after stake was removed - still 4 eggs N.V

1 July — #9 still 4 eggs at 21:15, female flushed N.V.

2 July — #8 - 4 eggs - ♀ not in sight. BN

3 July — #5 - 4 eggs now. N.V.

#6 — 4 eggs at 21:45 N.V.

4 July — #1, 3, 7, 10, 11, 14 all have the eggs they have had before N.V.

5 July — #2 - 4 young @ 20:50 in nest N.V.

#4 2 dry young, 1 wet young + half shell, 1 egg N.V.

#1 nest empty NV

#3 4 dry young NV

#9, 10, 11 eggs only N.V.

7 July — #9, 10, 11 eggs still = nest. N.V.

8 July — #13 still 3 eggs N.V.

9 July — #9, 10, 11 still eggs - nest. N.V.

10 July — #13 Still 3 eggs N.V. a5/m

10 July — #12 1 wet young, 2 unhatched

11 July — #13 - 3 eggs #4 - 2 eggs N.V.

#11 — 4 eggs ± 1. 3 eggs N.V.

#12 only one warm egg — nest. N.V.

12 July — #6 — 4 eggs

#8 : 4 eggs - bird sitting.

14 July — #11 — 2 dry, 1 wet + shell, 1 egg cold 21:15 N.V.

Calidris pusillus (2).

15 July #6 - 4 eggs

17 July #8 - still incubating

20 July #8 - 2 young out and dry; other two eggs not yet pipped.

26 July #8 - 1 cold egg left in the nest cup.

Calidris pusilla

Maclean
1967

C. pusillus

5 June — Heard one brief motorboat over Beach Ridge, but did not see any birds.

In the evening, found these frequent in melt puddles along the beach. These are frequently found along rivers, streams, etc. Maybe they can't feed successfully on the skins of dry tundra opening now, and must stay by water until more tundra opens. If so, attempts to characterize feeding sites on tundra now are misleading. Pores in beach gravel may represent a real feeding site.

8 June — Very abundant and active in the Drum area - obviously early activity. Much display and chasing - territorial boundaries not yet established or even hotly contested, but much chasing about and ground posturing.

9 June — Not a bird on W Beach Ridge. In the afternoon checked Drum area again - activity greatly reduced. Encountered 4 well spaced pairs in strip behind the lab - v. little display and no interaction between the pairs. All of these could have been laying. ♂ + ♀ remained v. close.

10 June — A.M. - heard 1 singing ♂ near S shore of Family Lagoon - saw none near

Maclean
1967

C. pusillus

[10 June] Micro Mer.

P.M. - Two displaying ♂♂ by N. end of Britton's Area. Watched 1 bird feed ♀ of FOA in flooded low poly gon region.

11 June two well separated pairs along Bowerville Ridge - 1 ♂ displaying near abs Charlie's grave, another ca 400 m. farther East.

12 June Activity was up again in the Drum area. Karl found several nests and watched long enough to sort things out - see his notes for details.

Checked Village Ridge and Lake-Exter areas in the afternoon - absolutely zero!

13 June None near Llewellyn's weir, in an area that often supports semi-pals. In the evening, just S. of F.A.O., watched a burst of activity involving at least two pairs. ♂ chased off another ♂, then gave ground display to ♀ and reset to give aerial display. Birds were in flooded low poly gon area.

14 June Watched a chase of 3 birds, followed by 2 ♂♂ in aerial display, over Bowerville Ridge. There are several pairs scattered along this ridge. The activity was probably initiated by 1 or more unsettled intruders.

15 June

Maclean
1967

C. pusillus

14 July — 1 adult with 4 young juveniles NE of U.S.C. & G.S.

15 July — A flock of 8 and 2 adults with 4 juveniles feeding along the edges of pools near the reefer row in the drum area.

17 July — Collected one bird from 6 feeding with 2 fusicollis along pool edge near reefer row in drum area. FAP C.p. #67.

24 July — birds are beginning to consistently pile up around edges of pools by reefer row. ca. 10 there today.

27 July — ca. 10 immatures were spread out feeding along wetdrain near corner of Central Marsh. A flock of 12 was feeding around pool edges at Shooting Station. A young boy collected a banded immature from a pool there - our band # 75-26632.

30 July — 2 - adults I think - feeding along pool edge SW of Microwave. Immature again in corner of Central Marsh - ca. 30 of them. Collected 5 - SM #775-779 - all immatures

31 July — Over 18 birds in flock at Shooting Station in the afternoon; 22 in the evening.

5 August — today was semi-pel day. A flock of about 40 was feeding with 10 al pin and

Maclean
1967

C. pusillus

10 melanotos around ponds South of Imikpuk - apparently all immatures. Collected 5 - SM 754, 5, 6, 7, 8. Birds were working over bare mud areas - peck or very shallow jabs.

Another flock of 80 or so was along the road in Central Marsh. Still more - ca. 30 - in the pond behind shooting station.

6-8 August — None at Umiat.

9 August — About 20 birds at shooting station, remaining apart from large flock of alpina. Watched these feed - motion was essentially a very shallow jab - about 1-2 mm, directed rapidly in series to the substrate. The prey is not found by visual clues. Pattern of bill marks in mud shows complete and regular coverage of the area. Some part of the larva must come close to the mud surface, but not break the surface to become visible. Still - they are noticeably utilizing a different stratum than alpina feeding by jabbing to ca. 20 mm. in the same areas.

10 August — a few pusillus, feeding as ↑, in coastal type ponds at Nuvuk.

11 August — About 40 in a flock by reefer-row ponds at So. Drum Area. Another (presumably - although ↑ those were gone when I drove in) flock of 18 feeding

Hacked
1967

C. pusillus

11 August] along the weasel road near the corner of Central Marsh.

12 August At Shooting Station - numbers were down somewhat; probably 25 birds moving about the various ponds. Collected 1 - an imm ♂ w/ light jar - SBI E16.

14 August A few birds by reefer-row - no others ~~by~~ in Holmes' Marsh, Central Marsh.

15 August On trip in to Ikroavik - a few birds along the weasel road, especially by the gas well.

16 August In S. Voth Area - a few birds feeding in saturates and bare polygon troughs.

19 August a flock of ca. 20 along pond edges in Drum area near Family Lagoon; no others between Camp and Brownville until a few birds were seen around pond edges just behind Brownville.

20 August a flock of ca. 12 by ponds just behind the ARL animal compounds.

21 August Abt 6 birds in ponds South of Imikpuk, and a few others along weasel road in Central Marsh.

Calidris pusilla

Macleon
1968

Calidris pusillus

1 June — Saw at least 2 on the exposed portion of Beach Ridge, W. of B.R. Crossing.

3 June — 4 birds - probably 2 pairs - in the Drum area.

4 June — the Drum area is not yet very active - 2 settled pairs, with some interaction between the males. there were several birds - again perhaps 2 pairs, maybe 3 - by the gaswell buildings.

6 June — No change in the Drum area.

9 June — there seems to have been an influx by the Cakeeater site. Saw a fair amount of activity there. Still, the numbers are definitely down.

14 June — Went out with Safriel and Gogan to Cake-eater area. Quickly found 2 nests within about 60 meters. One of these was obviously quite fresh - very close to the retreating snow. Couldn't pass it up. Used Soikkeli's trap to get the bird (SM 888) - 28.3g - must be a ♀. the four eggs weighed 6.8, 6.5, 6.9, and 7.1 g. respectively - $\Sigma = 27.3$g, $\bar{x} = 6.825$g. i.e. - only 1 gram less than the producing ♀. Egg laying must be more of a stress in this species than in alpina. the extraction will be particularly interesting. I think I will want some more weights of eggs.

Mackeen
1968

C. pusillus

3 June — Still some display and birds acting newly-arrived inland from navy communications station.

4 June — Still display over gasline ridge!

7 June — I hadn't realized the degree to which pusillus have filled in the drum area and beyond. They are now extremely common all the way to Micro-Met, and there was a great deal of display today. I think many birds may still be laying in the area just So. of the drums and west of AACS.

Maclean
1969

Calidris pusilla

7 June — Saw 2 birds feeding actively around a melt-pond in the middle of Barrow Village.

9 June — Suddenly they are here commonly and are displaying all over the place. Nearly every bit of exposed tundra has dispersing flocks, with chases and aerial display, and even ground display. A number of these new arrivals are banded - has to be careful to avoid collecting these. took 5 - SM 1026 — 1030.

In one case, we may have seen a pair formation. One bird was displaying actively, then flew aggressively at another bird that landed nearby. This bird did not respond, even when the displayer cocked his tail and gave a burst of ground display. the latter then calmed down, and when the former flew about 20 m. to a new feeding location, the latter flew with it to remain ca. 1 m. away.

10 June — Many birds in the area and activity level is quite high. In the Drum area the activity level is much higher than the amount of exposed ground would dictate.

11 June — Nothing new to report. I think

C. pusilla

11 June) eggs are about to be layed in Britton's area.

12 June I believe, from the birds' behavior, that eggs have been layed. a couple of birds popped up in such a way as to make me look carefully for a nest, but found none.

14 June Display has just about dropped to zero. Some ♂♂, when flushed, give brief motor-boats, but not much from these, otherwise.

19 June Collected pusilla nest #1 + 2 adults: SM 1055 and 1056. first 3 eggs weigh 7.8, 7.9, 7.4 grams (cannot tell order). 4th egg weighs 7.9 g.. All eggs wrapped in aluminum foil and packed in cotton, then frozen. the adults weighed 28.8 and 29.4 g. the nest was found by U. Safriel in the old village cemetary. it has 3 eggs at 2:30 P.M.; 4 eggs at 10:30 P.M., when it was collected. Adults not attentive at that time. the birds were a pair-banded as a pair last year - yellow over pink on the right leg.

Found 3 4-egg nests today: 1 in the old cemetary, 1 south of south salt lagoon, 1 in the Drum area, west of pole 7.4.

Jackson
1969

C. pusilla

22 June — A nest found by Custer 3 days ago in the Drum area with 3 eggs had 2 eggs yesterday, none today. I suspect weasel predation.

26 June — Safriel gave me 4 eggs from deserted nests today: 3 from 1 nest (6.7, 6.6, 6.7 g), and 1 from another nest (7.3 g.).

5 July — the first nests are hatching today (U. Safriel, pers. comm.). Quite late.

Mackay
1965

Calidris mauri

29 June — Strange looking white-rump in AACS marsh .... smaller, redder, spotted down sides of breast. 'tis a C. mauri. Watches the bird feed along flooded tundra - mostly jabbing.

30 June — Saw at least 3 by NE corner of Central Marsh - feeding in wet stuff. Rufous-necked sandpiper mixed in.

2 July — Saw one feeding along pond edge in AACS marsh. Bird was pecking into bare ground.

3 July — Two birds closely associated in wet low polygons 200 m. NW of C + G.S.. Did not appear to be nesting.

4 July — Four birds closely associated in same area.

6 July — Saw 2 birds near traplines IV A-B.

Idaho
1967

Calidris mauri

21 June — Heard a burst of display in Central Marsh, but did not see the bird.

22 June — Heard it again in drum area, near gasline.

24 June — Heard a strange note in 5 area; then saw 2 small birds w/ reddish backs fly by. Maybe I'm trying too hard, but it could have been.

10-13 July — Only 1 definite sighting at Meade River - 2 birds flew out over the river as we were going ~~up~~ upstream in the boat.

Barlow
1969

Calidris mauri

3 June — A few birds were mixed in with the orgy of activity on Britton's Area. DWN collected one, which FAP is putting up.

10 June — Collected one for DWN from Beach Ridge, so. of FAA.

11 June — Heard and saw an aerial display in same sight. Bird rose to ca. 25 ft. above ground, then displayed for ca. 100 m. Note was higher-pitched than I has recalled; I take back all of my comparisons between this and Aphriza (= Calidris ?) virgata.

13 June — Again at above sight - saw 3 birds take off together and 2 gave aerial displays. Again - rose ca. 25 ft. and gave display while flying in a line. Just before this Bill Berry saw a nest-cup display by this species may have involved the birds that I saw in aerial display.

14 June — Was in that area today without seeing any, but foggy weather discourages all sandpiper activity.

15 June — Tom Cade saw display between the DEW site and Beach Ridge.

16 June — I saw and heard display of several birds over polygonal upland

Maclean
1969

C. mauri

(6 June) tundra on SW extension of Gasline Ridge. As before - the display was given in short bursts involving a quick flight at a relatively low height.

17 June Saw 2 birds displaying on south side of Gasline Ridge. Based on what I have seen this year, this species lacks a sustained display flight but is like fuscicollis in making short, relatively low display flights.

20 June today there were at least 5 birds involved in a burst of display activity at the same spot. I am sure that there are eggs to be found. Did not stay to sort out the activity.

25 June Norton found a 4-egg nest by the Cake-eater site, so breeding is confirmed.

Calidris ruficollis

June — Dave Norton brought in a description of this species - apparently just one bird amongst some dunlin.

10 June — Norton's confusion today indicates that the above may have been a brightly-plumaged ♂ sanderling.

Erolia fuscicollis
is now
Calidris fuscicollis
per AOU 1998

Maclean
1964

Eroica fuscicollis

10 June

Barrow, Alaska

Most abundant species along Beach Ridge. Near AACS - extremely active. Much song (at least 4 different individuals seen ~~singing~~ in aerial display), ground display, and chasing. Aerial display - fly along ground (5-10 ft.) then suddenly rise to 30-40 ft and glide to ground giving "Boing-Zee" ♀ call. Ground display - body horizontal, tail cocked, wings spread and held low. turn in small circles. Given several times to other white-rumps - usually terminating in chase. Also given twice to Pectoral, once to Baird's. Chases in chase. Chases interspecifically in groups of 2-5 (4 most common), and intraspecifically with Pectorals and Bairds.

Less frequent near gas-line end of S. Beach Ridge.

W. end of gasline ridge - observed ground display. Displaying bird (♂?) tail cocked, displaying coverts. Wings spread, held down, then both held up simultaneously, then one pulled into side, with other held up. ♀ ca. 12 away - no evident response. ♂ quivers, or flashes, upheld wings rapidly. Another flew in and landed ca. 1 ft. away. Displaying bird chases. Other bird remained - collected.

Maclean
1964

Erolia fuscicollis

Evening - checked Voth area. One seen displaying on Voth Bluffs. Otherwise, none seen. (Several Pectorals seen.)

11 June — None seen in Drum area.

12 June — two displaying ♂♂ on NACS side of beach ridge. 1 covering area ca. 150 x 200 x 200 yards. Between display flights, stays approx. in center. ♂ Pectoral undisturbed in center of tritory.

13 June — 1 displaying ♂ - E. side of Pow Main. At least 3 ♂♂ in E. Fresh Lake marsh, displaying. 1 actual fight.

15 June — Still common in dry and mesic habitats. None in Drum area. Mostly along beach ridge and gasline ridge. ♂♂ displaying frequently.

18 June — Occasional birds encountered in upland E. of gas-line. Not as frequent as W..

20 June — Concentration in area E. of Pow sight, on polygonized and mesic tundra ground.

23 June — Polygonal area S. (more or less) - 200 yds from micro met. ♀ off nest - ♂ approaches - strong ground display. ♀ flew away, back onto nest. 30 sec. later - same ♂ gave ground display to another ♀ 40 ft. away. Shot down again. Nest - 4 eggs - marked by stake 6 ft NNW.

25 June — 3 (presumed) ♂♂ seen on Holmes' plot. No others in area.

Mackean
1964

C fuscicollis

28 June — Nest - 4 eggs - ca 100 yds N. of CIRCEL but at corner of beach ridge. Ca. 3 ♂♂, 2 ♀♀ chasing around sloping marsh. ♀ from nest given ground display when off. Otherwise ignored others.

29 June — 4 birds - possible flock - on N. side of mouth of Utah creek into Middle Salt Lagoon.

1 July — Flock of 6 seen (6:00 P.M.) below (w) Beach Ridge. Very active - chasing.

2 July — Flock of 6 - same region. same?

3 July — Nest (# 14) w/ 4 eggs - S. of bend in pipeline (300 yds. So. of Micro-met.

All nests checked - none hatching or pipping.

6 July — Nest check. nest # 12 - below bend in beach ridge - hatched out. 4 chicks being brooded. No other birds in attendance. Now there are 3 (Mackean 260). No activity in any other nest.

Flock of 18 flying actively around slope. Returned in afternoon - flock moved onto low polygonal ground. 2 turnstones flying with flock. 1 Turnstone and 5 white-rumps collected (Mackean 264, 265, 266, 267, Tenaza-184) - all ♂♂; molting. [Tenaza-184: bar lights, heavy molt. 5 = 7 × 4 2mm.].

Flock of 5 on Beach Ridge - very active. Seem to be losing voice. Several have lost

Maclean
1964

C. fusicollis

6 June

poing, retain Zzzzzee. Gives fishing reel - like sounds. Flock made no grouns display to ♀ off nest, as frequently seen before. Feeding members of flock chases by ♀ pectoral, sounds.

Forgot to mention - 1 of flock of 18 near corner of beach singe gave grouns display to another bird - can't be sure of status of either.

8 July

Nest check: Nests # 4, 8, 11, 14 all vacated, presumes hatches. No chicks or distracting adults seen, but didn't look overly hard. Other nests still incubating - all sitting tight.

9 July

Nest # 7 - 2 out of egg - still wet. Flock of 5 or 6 — near gasline bend, ca. 250 yds. S. of micro-met.

10 July

Nest # 7 - all out. ca. 10:30 A.M. - 35 yds from nest cup, being brooded. Ca. 5:30 P.M. - ca. 120 yds. from nest.

Group of 4 birds or singe. flew over to ♀ # 5 when she left nest, but no display or other interaction between birds. Nest # 5 - 2 in, 2 out.

11 July

Nest # 5 - all out of egg, in nest cup. Ran when ♀ flushed.

Nest # 12 (first to hatch) - ♀ with 3 chicks (I took 4th at time of hatching)

Mackean
1964

C. fuscicollis

ca. 100 yds from nest. 1 bird attending chicks - no distraction display. Flew around area, but made no sound. Chicks squatted motionless until ♀ landed, then ran over and were brooded.

Groups of 3 and 4 ~~birds~~ seen - no large flocks.

13 July — 2 birds together - Vath Area. Wish I coulda shot 'em. ~~Another~~ other groups of 4, 9.

♀ #7 with 4 chicks. No other birds in area. ♀ brooding young ca. 40 yds. from nest. i.e - has moved back closer to nest (or is another ♀ with brood.) No distraction Display.

14 July — ♀ 12 w/ 3 still ca. 80 yds. from nest cup. Chicks disperses, then watches ♀ reassemble them. All on foot - one by one. Found one, then searches for 2nd with 1st following, then for 3rd with 1st + 2nd following.

♀ with 1 chick ca. 120 yds. N. of #12 - closer to low polygon area. Chick collected - Mackean - 277. 25.4 g - i.e - earlier hatching than any of others. Noticeably advances in size, development of contour and flight feathers. Only 1 bird in attendance. Taken on 1 SA 3 5.

Mackan
1964

C. fusicollis

15 July — Flock of ca. 18 along top and W. side of gasline ridge, flying actively. On E. side - 1 birds acting as if chicks near.

16 July — Central Marsh - N. of gasline Ridge - flock of ca. 5 white-rumps + 7 pectorals. Joined temporarily by 2 sco-backs, 1 sco-phalaropes. Flying and feeding as group. 2 white-rumps collected (Mackan 285, 289) - flock dispersed into 2 groups - pectorals separate. #285 - ad. ♂. very light weight, molt proceeding. #289 - ad. ♀. molt just beginning - heavy on head, none elsewhere. Birds collected with 1 shot when flock standing w/in 10 ft. circle. (i.e - no doubt that these were flocking.

In same area - birds distinct from flock, ~~am~~ remaining in 1 area, and giving alarm calls and distraction displays collected. (# 284). Molt similar to ♀ 289 - but less on head. i.e - least molt of all collected. Brood patches present and vascular. [Forgot to mention - ♀ 289 - no brood patches present.]

Near parking area for gasline ridge, and over polygonal area to North - flock of ca. 25 flying actively. Would break into smaller flocks for 5 min ±, then regroup. 3 birds collected

Maclean
1964

C. fuscicollis

when flock grouped (to insure collection of flocking individuals) — # 286, 287, 288.
286 - as ♀. Brood patches present, but non-vascular. Molt in initial stages - summer plumage still apparently complete. # 287 - as ♂ - molt to fall plumage nearly complete.
288 - as ♂ - molting heavily, but not as far along as 287.

~~Count up to 3 young~~

17 July — Checks gasline Ridge traplines. Flock still in same area - W. of Ridge. Adult giving distraction display - W. side of ridge, near parking area. Adult w/ 4 chicks together with adult Baird and 3 chicks moving N. along W. edge of No. Meadow Lake.

18 July — Adult w/ 3 chicks in wet marsh (6A 3 3) across Volsekkag Slough, on road to fertilizer plot.

19 July — Presumed ♀ - lone bird flying actively around fixed area; calling, but not giving distraction displays. collected. (Maclean, # 296). ♀ - beginning molt (heavy on head; light elsewhere). Brood patch present - non-vascular. Molt data is beginning to fall into place.

30 July — 2 birds together, flying very actively near Voth Slough. Would land very

Maclean
1964

C. fuscicollis

briefly. Then fly again. One collected (# 3(4)) ♀ - heavy molt - fall plumage 2/3 complete. Other took off for next county.

31 July — 2 birds seen on Pitelka's Plot, each feeding alone. No sign of interaction between two - ca. 100 yds. apart.

3 August — 2 birds seen in diligent search of interior - both (together) near S. end of Okpaavik. One collected (# 322) - ♀ w/ obs brood patches - moderate molt. Must have had young - molt delayed. Beautiful.

9 August — Immature seen near stake 10 of Plot. Dispatched - # 326.

10 August — Low Polygon area W. of Upper Meadow Lake - mixed shorebird group feeding in drying pond includes 3 white-rumps, + 5 Red backs, 2 semi-pals. 2 white-rumps collected — # 332 + 333, both imm.

Ad. ♀ - heavy molt. taken from edge of Voth Slough - # 334.

11 August — Low Polygon area W. of Upper Meadow Lake - white-rump flying with semi-pal. collected - # 342 - imm.

clean 1964

C. fuscicollis

15 June

1	W. slope of Beach Ridge	9:05 P.M.	Mesic slope	Running rapidly 75% peck; 25% jab.
2. ♀	E. slope of Beach Ridge	9:15	Pond edge.	Jab 50%; "Jackhammer Jab" - 50%.
3 ♂	"	"	Disturbed roadway	peck. moved to wet marsh - jab.
4	"	"	wet marsh	jab - ca. 6 times.
5	"	"	raised ridge in wet marsh	pecked, then flew with ♀, displayed, to top of Beach Ridge (this just keeping warm?)
6	Beach Ridge	11:50 A.M.	well drained ridge top	♂ standing. Pecked once, flew and displayed.
7	S. of AACS	4:00 P.M.	Mesic meadow	Mostly jab, few peck.
8.	Beach ridge, as mixed-wet	5:46	wet marsh	jabbing. Moved to pond edge.

e Jean
1964

C. fuscicollis

15 June

9. PR.	Beach ridge, as micro-net	5:52 P.M.	wet marsh on ridge top	♀ jabbing in wet marsh and sm. pons. ♂-ground display.

♂-tail up 90° - bony horizontal . Bill working, but no audible sounds. Helo wings away from bony , but not extended.

10	"	5:50	mesic meadow	jabbed ca. 5 times.
11	"	5:56	wet marsh on ridge top.	probe; few jabs.
12	"	5:59	ridge top	jab
13	"	"	"	"

achan, 1964		C. fasciatis	17 June	
1 ♂	by N. Mirror Bldg.	11:32 A.M.	wet marsh	jabbed ca. 5 times.
2	N. of "	11:35	"	"
3.	Beach Ridge	11:42	"	standing.
pr.	N of mirror			
4	"	"	"	Jabbed ca. 12 times
5 —	W. of Beach Ridge	11:48	wet marsh	jab.
6	N. slope of W. Beach Ridge	3:57 P.M.	mesic area in disturbed roadway.	Spaces single jabs + series of 2 + 3.
7 8.	"	4:00	"	jab. few pecks.
8 ♂	"	4:02	mesic slope	jabbing — 1, 2, + 3.

Mackean
1964

C. fuscicollis - feeding observations

21 June (6) 5P - 2 - 3A - 2 - 5 1/4 min.

(2) 4P - 5 - -B - — — jab : 3-8 5 min

22 June 017 ♀

2P - 1 - 5A - 3 - 4 2 1/2 "

jabbing v. rapidly : 1-10 (off nest?)

018 ♀

2P - 1 - 4A - 3 - 4 4 1/4 "

" . ~~rest~~ to ~~nest~~.

020 ♀

2P - 1 - 4A - 3 - 4 1 "

jabbing actively : 1-8

021 ♀

3P - 1 - 4A - 2 - 4 3 "

jab. rapidly in dry weed track.

~~rest~~ to ~~nest~~ - S. slope Beach Ridge

022 ♀

3P - 1 - 6A - 3 - 4 1 3/4 "

1 - 5A - 3 - 4 1 "

1 - 5A - 3 - 4 3 1/4 "

1 - 5A - 4 - 4 1 "

1 - 5A - 3 - 3 3/4 "

jabbing v. actively - 1-6.

full distraction display, then resume feeding.

023 ♀

3P - 1 - 5A - 2 - 3 3/4 "

1 - 5A - 2 - 4 2 1/2 "

Mackay
1964

C. fusicollis - feeding observations

023 (cont) - jabbing actively

024 ♂

3P - 1 - 4A - 2 - 4 5 "

jabbing : more 1 than ser. (tot.)
leisurely.

025

3P - 1 - 5A - 2 3 1 "

jab - 1 + ser.

027 ♀

3P - 1 - 5A - 3 - 3 ½ "

1 - 6B - 3 - 3 3¼ "

jabbing actively

♂ ground display 1 ft. behind → no resp.

031 ♂→

4P - 1 - 6A - 3 - 3 ½ "

attacked ♂ 50 yds. away

23 June 046

9A 1 5A 2 4 5 "

mod. rare. move 40 yds.

N. slope - Beach Ridge

050 (♀)

9A 1 5A 3 3 ½ "

v. rapid jab - mostly 1. moves 5 yds.

N. of micro-met.

051

9A 1 3A 2 4 5 "

shallow jabs - 1 - 3. mod. rare.

moves 50 yds. N. edge of marrow lake

Mackay
1964

C. fasciculis - pairing

23 June
Coon.

067

11A	1	4A	3	4	1/4"

bisurely jab - 1

069 ♀

3P -	1	- 4A	3	3	4"
?	1	6	1	3	1 1/2"

jabbing in rapid succ. to ♂
ignores ground display of ♂ 070, then chases by ♂.

070 ♂

3P -	1	- 4A	- 3	- 3	3"

grounds display to ♀ 069

072

3P	1	4A	3	5	1/2"

083

5P	1	6A	3	5	3 3/4"
	1	4A	3	5	2 1/1"

jab rapidly - 1 - 5.

084 ♂

5P	1	4A	3	5	2 1/4"

jab off and on.

087

5P	1	6A	3	4	3"
	1	6A	3	4	2"

w/ 2 a, another ♀, flock of ca. 15 m.

24 June 096

5P	1	5A	3	4	5"

jab: 1 - 5. moo rate.

Mackon
1964

C. fusicollis - feeding

28 June

111

1P	5	3B	3	1	1/4"
	6/5	1B	—	3	1 1/4
	6/5	1B	—	3	1 1/4

(shallow) jab ?

115 ♂

2P	1	5A	3	5	1/2"
	1	5A	3	5	1/2"

116

2P	1	5A	3	5	1/4"
	1	4A	3	5	2"

117

2P	1	4A	3	5	5"
	1	5A	3	5	1/4"

peck + jab.

29 June

145

9A	1	6A	3	5	1/2"
	1	6A	3	4	1/2"
	1	5A	3	4	1"

147

9A	1	5A	3	4	1/2"

151

10A	1	6A	3	4	4 1/2"

probe at veg. base. w/ 152

152

10A	1	6A	3	4	5"

probe at veg. base. w/ 151

Maclean 1964

C. fuscicollis - feeding

29 June 155

11 A 1 5A 3 5 2"
jab

Dicey snow - peck 1"
5 4A 2 3 1"
jab.

1 July 174

1P 1 5A 3 5 1 1/4"
peck 1/2, jab 1/2

175 ♂

2P 1 4A 3 5 1 1/2

176 (♂)

2P 1 5A 3 5 5"
Probe. non-flocking, non-incubating

2 July 188 ♂

2P 1 6A 3 4 1"
peck on surface. 1 of flock of 6.

189

2P 1 5A 3 4 1"

3 July 197

4P 5 3B 2 1 2 1/4"

198

5P 1 4A 3 3 1"

201

5P 1 4A 3 5 1/2
peck

Maclean
1964

C. fusicollis - fasing

6 July 206

9A	1	5A	3	5	3"
	1	5A	3	4	1"
	1	5A	3	4	1½
	1	~~4A~~ 5A	3	5	2½
		5A	3	4	½

peck.

208

9A	1	5A	3	5	3"

209 ♀

9A	1	5A	3	5	2½"

~~peck~~

219

11A	1	4A	3	5	½"

peck

223

3P	1	4A	3	4	1"

~~peck~~. w/ 6 (♂♂) m

228

3P	1	4A	3	5	1"

♀, w/ 8 ♂m, 1 T.

8 July 234

10P	1	4A	3	5	5"
	"		"		5"

ca 6, w/ 2 P.d., ca ½ ♂m.

10 July 238 (♂)

1	3A	3	5	5"

Maclean
1964

C. fusicollis - feeding

10 July 238 (cont)

1	3A	3	5	3"
	5A	3	5	2"

1 of 4. peck

239 jw.

10A	1	5A	3	5	½"
brood of 4	"				½"

(1 day out)

242

10A	1	4AC	3	4	5"

245

11A	1	5A	4	4	5"

246

11A	1	5A	4	4	5"

248

4P	2	3B	3	4	2"

peck 2/3 ; jab 1/3.

1 July 257

4P	1	5A	3	5	3½"

group of 3.

258 jw.

4P	1	6A	3	4

3@ (I took 4th earlier.)

14 July 267 ♀

2P	1	5A	3	5	5"

268 jw. (w/267)

2P	1	5A	3	5

3@ - peck.

Maclean
1964

C. fusciculus - feral

14 July

269

2P 1 5A 3 5 5''

pack

270 jw.

3P 1 5A 3 5

↓ only (scan driving port).

ascicollis (33)		top	Veg	Height	Moist
1		AZ / ~~55~~ 90 1/2	2 / 2 1/2	1 / 1 1/2	1 / 1/4
2		1 / 1/4		9 / 23 1/2	
3			5 / 11	~~25~~ 35 / ~~45 1/2~~ 67 1/2	13 / 19
4			12 / 28 1/2	1 / 1	20 / 57
5		5 / 9	18 / 28 1/2		13 / 20
6			11 / 26		

sacollis (33)		top	Veg	Height	Moist
1		90 ~~80~~ 70	3%	2%	
2				25%	
3			11%	73%	20%
4			30%	1%	60%
5		10%	30%		20%
6			27%		

Maclean
1965

Calidris fuscicollis

13 June — three birds ± 1 seen in drum area. First feeding quietly. Saw well developed aerial display - zzzzz pairing zee-by bird chasing another fuscicollis. Later saw another feeding.

14 June — None seen in Holmes' Morass.

16 June — One seen feeding in very active pocket S. of Brant Point. No display, chase, or anything of sort.

19 June — Several pairs encountered in Voth Area. Display seen once. ♂ + ♀ collected after feeding observation - #108 +106. ♀ - ova just beginning to enlarge.

24 June — Displaying ♂ W. of micro-met. Only 1 display heard.

25 June — Displaying ♂ near AACS displaced by ♂ pectoral.

27 June — Heard 1 burst of aerial display in AACS marsh. Saw another bird localized on ground.

29 June — Found AACS pair nest w/ 4 magnificent eggs - ca. 50 m. E of old drill site marked by boards + lob in tundra.

1 July — Nest is now empty. Damn! Heard 1 display on W. Beach Ridge, near micro-met wanigan.

2 July — 3 birds flew W-E over AACS

Maclean
1965

C. fuscicollis

marsh very high - all very close together and all displaying. Continues for at least 200 m. until sound obscures, then saw one veer off towards South, other two continue on to East.

4 July — Saw very similar behavior in same area. + three birds very high, W-E, with much display heard. At least 2 and probably three uses V-wing hover ♂. Joined by another bird which also uses hover. Split up somewhat just as they disappeared - could not tell how. Could be beginning of association of ♂♂ preparatory to migration. Birds are obviously not territorial strongly, but display indicates sexual activity too great for flocking.

MacLean
1966

Calidris fuscicollis

8 June — One bird with group of red-backs in Britton's Area.

10 June — Two birds - 1 ♂, other probably ♀ - by Elson lagoon, S. of Brant Point. ♂ poing-zee's once, and gave good (but brief) ground display. Both birds feeding in wet, marshy tundra. good view of one consistently probing.

11 June — Two birds in active chase over beach ridge at road crossing. One gave short song. ½ hour later - another chase at same spot.

Afternoon - same spot - one bird feeding on wet exposed spot at edge of Central Marsh. Flew up over ridge and sang. Note: separate feeding and display areas, spatially distinct.

13 June — Birds displayed from approximately same spot on Beach Ridge

1 July — Heard a ♂ at South end of P's plot.

MacLean
1966

Calidris fuscicollis

8 June — One bird with group of red-backs in Britton's Area.

10 June — Two birds - 1 ♂, other probably ♀ - by Elson Lagoon, S. of Brant Point. ♂ poing-zee's once, and gave good (but brief) ground display. Both birds feeding in wet, marshy tundra. Good view of one consistently probing.

11 June — Two birds in active chase over beach ridge at road crossing. One gave short song. ½ hour later - another chase at same spot.

Afternoon - same spot - one bird feeding on wet exposed spot at edge of Central Marsh. Flew up over ridge and sang. Note: separate feeding and display areas, spatially distinct.

13 June — Birds displayed from approximately same spot on Beach Ridge

1 July — Heard a ♂ at South end of P's plot.

Macleay
1967

C. fusciollis

7 June — Heard a magnificent 'pring-tzeee' at Nuuuk - just once.

8 June — Heard it again on W end of Beach Ridge, but did not see the bird.

13 June — Heard a display from area of Micro Met. P and J saw 2 birds fly rapidly past Gasline Ridge.

14 June — Again heard white-rump from Gasline Ridge and Micro-Met area. Saw 1 fly by on Gasline Ridge.

17 July — 2 birds feeding with 6 pusillus in the drum area, along a bare pond edge. Collected 1 - FMP Cf. 67-1. Gular pouch and orange base of lower bill are again conspicuous.

Macleo
1969

Calidris fuscicollis

7 June — DWP thought he saw 1 on Britton's area this aft.

11 June — Saw 3 birds feeding actively on Beech Ridge, so. of F.a.d.. Later saw 2 birds together near the same area. One of these was a ♂. twice the birds were flushed - once by me, once by a caterpillar tractor. Both times the ♂ followed the other (presumed ♀) and gave ground display upon landing - tail cocked forward posture, wings partially extended - bugging note. No visible response from other bird, and displayer resumed feeding.

Erolia bairdii
is now
Calidris bairdii
per AOU 1998

Maclean
1964

Ereolia [illegible] bairdi

10 June

Encountered frequently near AACS and along Beach Ridge (S.). Display flight seen occasionally. One displayed to by a white-rump. Several chases by white rumps.

Near sta. 8.0 of So. Gas line trap line - ground display. two birds - one tail held down, fanned. Feathers of back ruffled. Wings held away from body and down. Followed other bird ca. 8" behind; two went in tight circle (ca. 2 ft. dia.; moving - ll ... Continued 30 sec., then displaying bird (presumed ♂) flew 40 ft. away, other (♀?) followed 20 ft. away. Both flew 150 ft. South. 30 sec. later ♀ moved back to original and disappeared. ♂ continued to fly actively 30-50 ft. away. Flushed ♀ off of nest w/ 4 eggs. Nest on side of polygonal mounds. Exposed from all sides. Shallow cup, well lined w/ lichen. Eggs green, heavily spotted w/ brown. Pointed ends of all eggs toward center of nest. Bird gave very brief distraction display as eggs checked, then flew away.

Evening - 1 possible seen in Voth area.

11 June

Much activity in Drum area. 1 displaying (aerial) nearly constantly for est. 10 min. over △ 200 x 200 x 150 yds.. Chases frequently seen. Group of 4 chasing - same area as 1 before displaying. Chase low over ground. 1 dropped off, others continued. Flew higher. 150 yds

Erolia bairdi

11 June (cont.) away, 50 ft. up, rejoined by 4th bird. Continues 50 yds (to height of ca. 250 ft.) 1, then other dropped off. Both gave aerial display as drifted back towards area where activity began. Leaves ca. 100 yds. apart. Other 2 continues on in direction of chase.

Baird and Semi-Pal feeding 2 — 10 ft. apart — no apparent interaction.

12 June One displaying just West of white-rump territory. Continues ca. 1½ min. w/ no response from other birds.

13 June Much activity over marsh between Pow Main and Fresh Lake. One chase involves 5 birds. Bird on ground by corner of S-most Pow Bldg - giving wing-raised display. tail slightly up (ca. 30°). Helds close side wing up ca. 20 sec, switches. Watches me all the time. Believes displaying to me. Finally joined by another bird, both flew.

Several displaying over E. Fresh Lake Marsh. Saw chases of 2 + 3 birds.

Evening: 1- constant display in Drum area. Bird flushes by upside-down table. Did not go back to nest in 25 min.. (Incomplete clutch?) While off nest, displaying bird flew up - raised wing display, then ground display. tail down and fanned, body horizontal. Helds wing up, then straight

13 June (cont) out and pivoted around outstretched wing, following other bird. Stopped display without apparent reason.

Later - raised wing display. Other bird flew up and landed; stopped display (Fool, you had her going!)

15 June Very common in outer drum area. Frequent on mesic and polygon tundra elsewhere. ♂♂ still displaying. Use raised wing ground display more frequently than any other species. Chase nearly constantly.

18 June Regularly distributed, without any large accumulations, through hummock marsh and uplands E. of gas-line. Less abundant than res-backed, pectoral, or buff-breast.

20 June Little activity in area W. of Beach ridge.

22 June N.W. of Beach ridge, in high polygon area - pr. next to C. melanotos. ♂ attacked Pectoral briefly, repeated, then chased ♀. Pectoral did not chase.

23 June Nest - 2 eggs - at base of beach ridge, recently exposed low polygonal ground.

25 June None seen inland.

29 June Nest - 4 eggs - amid trash on floor polygonal inlet into W. end of Mud Salt lagoon. Eggs completely exposed - shallow cup lined w/ lichens.

Maclean
1964

C. bairdii

29 June — Nest - 4 eggs - 100 yds. So. of previous. As before, completely exposed; next to small scrap of plywood.

1 July — Broken winged bird found near AACS - (Maclean 247). Molting over entire body.

6 July — Chick found running along side of pond near AACS - collected (Maclean 261). 17.4 g - primaries extending just beyond sheath.

Flock of 4 seen below Beach Ridge corner - near CRREL hut (or CtGS, or whatever the hell it is). Feeding quietly.

chsan, 1964 — C. bairdii — 15 June

1.	Beach Ridge	9:38 P.M.		Displaying over ridge.
2.	W-slope of Beach Ridge	9:51	Polygon top (brown) in wet marsh (lg. pol. area)	sitting. Distractive display as I approached.
3.	Drum area	9:47 A.M.	uneven ground - low veg.	peck and jab - moves 1 m.. flew and chases.
4	"	9:52	"	moves 1 m. jabbed - few pecks.
5	"	"	low veg. pol. top	moves 2 m. Mostly jab - 1 probe.
6	"	9:56	Pol. top	preening
7	"	"	"	moves 2m; pecked once then display - raised both wings - courtship chase.
8.	S. of AACS	10:30	marsh, above sm. pond	stood facing wind, then flew.

Aleban 1964		C. bairdii		15 June
9 ♂	S. of AMCS	10:44 A.M.	mesic, above sm. pond.	Peck twice, flew to ♀
10 pr.	"	"	steep pol. slope above pond	Both stood, 1½' apart. (protected from wind)
11 ♀	"	10:49	mesic area in wet marsh	jab ca 8 times
12 ♀	"	"	"	jab ca. 10 times.
13 ♂	"	10:52	"	stood, facing wing, while ♀ fed. Raised 1 wing, courtship chase.
14.	"	10:56	"	mostly jab; some probe.
15	Drum area	3:00 P.M.	Pol. side, by sm. pond	stood, then flew.
16	"	3:10	uneven mesic grass.	jabbing actively - ca. 10 times

ackson 1964		C. bairdii		15 June
17.	Drum area	3:12 P.M.	Brown-top polygon	peck, few jabs.
18 pr.	E. of Drum area	3:35	mesic veg. in flooded marsh	♀ peck, few jabs. ♂ 5 ft away displaying.
19	S. of AACS	3:55	"	peck; few jabs.
20	"	"	"	"
21.	SW of AACS	4:05	mesic marsh	jab.

ochea 964		C. bairdii	17 June	
1.	Drum area	8:50 A.M.	veg. pol.	stoon - flew after Semi-Pal, then displayed.
2	"	"	low veg pol top	standing.
3	"	9:20	low veg. in even ground	stoon, scratched.
4	SW of AACS, near gas line	9:48	low. veg. dry pol.	Peck + Jab (30-50)
5	"	"	"	"
6	"	"	mesic marsh	jab.
7	"	"	"	"
8	"	"	"	"

ocean
1964

C. bairdi

17 June

9	S w of AACS, near gasline	9:56 A.M.	damp, v. low veg. pol. top.	j ab.
	Buff-Breasts		still there.	
10	"	"	mesic meadow	j ab.
11	gasline ringl	10:12	Polygon top	pecker, after chased by pectoral.
12	W. of Ringl Ringl	11:47	Polygon above wet marsh.	pecks in low veg.
13	"	"	mesic area in wet marsh	pecking.

18 June

1.	E. of AACS	10:24 A.M.	Hump in mesic marsh	sitting.
2	SE of AACS	10:48	mesic marsh	pecking

Maclean
1964

C. bairdii Passing observations

21 June (S) 4P - 2 - 5B - 2 - 3
jab 1 1/4 min.

22 June 001 9A - 1 - 6A - 3 - A 3/4 min
1 - 4A - 2 - A 1 3/4 "

50% peck; 50% jab: 1-2 (shallow)
Gave raised wing 2x to passing birds
SW corner - drum area.

005 - ♀
10A - 1 - 6_ - 2 - A A "
4B - 2 - 3 1 "

jab: 1-3. moves 15 yds.
ignored ground display of ♂ 1 ft. away.

006 - ♀
10A - 1 - 6A - 2L 2 1 "
with ♂. both chases by ♂ pectoral
jabbing: 1

015 ♂
2P - 1 - 6A - 3 - 4 3 1/2 "
jab: 1 + slow ser. to 6.

016
2P - 1 - 5A - 2 - 4 4 "
1 - 4A - 2 - 5 1 "
jab: 1 + slow ser. to 6

039
5P - 1 6AB 3 2 1/4 "

23 June 057
10A 1 5A 2 4 1/2 "

Maclean
1964

C. bairdii – feeding observations

23 June (cont)

058 min

	10A	1	5A	3	3	1/2 "

059

	10A	1	5A	2	4	1 3/4 "

jabbing leisurely - 1

060

	10A	1	6A	3	5	1/2 "

061

	10A	1	5A	2	4	2 3/4 "

jabbing slowly - 1-2

077

	4P	1	4AB	3	3	1/4 "

081

	5P	2	3A	2	5	1 "

082 (with 081)

	5P	2	4A	2	3	1/4 "

28 June

113

	1P	1	5A	3	2	3 1/2

peck, jab, and probe.

114

	1P	6	?B	—	3	3 "

peck, shal. jab

134

	5P	1	4A	2	5	1/2 "

peck.

143 (♀)

probe

9P	2/4	4A	A	3	1/2 "
	"	"	"	"	1/2 "
	3/4	4A	3	3	5 "

Maclea
1964

C. bairdii - keeping

29 June 146

9A 1 5A 2 5 5"

jab-1-3; few probe at veg. base

156

11A 3 3A 1 5 ½"

3 3A 2 5 ½"

157

11A 3 5A 2 5 1¾"

1 5A 2 5 3"

jab

159

11A 1 5A 2 5 3"

166

3P 1 6A 2L 3 1¾"

near polygonal area.

---

1 July 170

1P 2 4A 2 4 5"

probe at moss clumps. Larvae taken

6 July 210

9A 1 5A 3 4 ¾"

peck ½"

peck ½"

5 1A — 1 ¾"

Probe

1 5A 3 4 3½"

peck.

Macha
1964

C. bairdii

6 July 213

10A	1	4A	3	5	1/2"
		"			1/2"
		"			1 1/2"

215

11A	1	5A	3	5	3/4"
		"			3/4"

Flock of 4

10 July 240

10A	1	5A	3	4	3 1/2"
		4A	3	4	5"

241

10A	1	5A	3	4	3 1/2"
		4AC	3	4	5"

247

11A	1	5A	4	4	2"

1 July 254

3D	1	5A	3	5	2 1/4"
	1	4A	3	5	5"

260

5D	1	4A	3	5	3"

261

5D	1	4A	3	5	3"

aridic (24)		Top	Veg	Height	Moist
1		20/39		1/½	
2		3/2½		19/36	3/5
3		3/3	3/2	8/14	10/14
4		2/5½	9/11	2/1	8/16
5			11/26½		10/17
6		⅓	7/12		

irdii (24)	top	Veg	Height	Moist
1	74%		1%	
2	5%		70%	10%
3	~~36~~ %	47%	27%	27%
4	10%	21%	2%	31%
5		51%		33%
6	6%	23%		

Maclean
1965

Calidris bairdii

11 June — Observed 1 bird feeding in polygonal area NW of micro-met wanigans, around Stevens' plots. Saw two in flight, w/ brief burst of song, by Stevens' far plots.

12 June — Heard brief song by E. edge of Holmes' Morass.

13 June — Several birds in drum area - one chased by sanderling. No real display yet. None at W. Beach Ridge, E. Vath Area, Garline Ridge.

14 June — Saw none in Holmes' Morass.

15 June — One in drum area chased for ca. 200 m. by sanderling.

16 June — None seen or heard in E. Holmes' Morass.

19 June — 2 birds (pair?) seen in Vath area. Birds are downright rare!

20 June — Pair in raised polygons W. of micro-met. Feeding - no courtship behavior.

21 June — Heard moderate amount of display over drum area.

25 June — Much display and chasing in drum area. two and three bird chases common. Don't look like the 24th of June! One displaying bird over Beach Ridge near C+G.S. and one on grounds at N. end of Pitelka's

Maclean
1965

C. bairdii

plot; otherwise, all in area.

Maclean
1965

C. bairdii - nests

Nest #

1.	27 June	Barrel Area	2 eggs
	28 June		empty
2.	blank #		
3.	28 June	Garlic Ridge	4 eggs
4.	1 July	Barrel Area	3 eggs
5.	1 July	MicroMet Marsh	4 eggs
6.	2 July	Barrel Area	4 eggs
7.	6 July	3. Fresh Lake	3 eggs

Macleay
1966

Calidris bairdii

6 June

Much activity along beach ridge - in fog, could hear more than see. Also heard 1 over gasline ridge.

In late afternoon - pair located on Beach ridge. Took feeding observations.

Madison
1966

C. bairdii

19 June — Upon return from Meadoe River, where this species was not seen, went into town, then walked out Browerville ridge to village ridge. Birds are conspicuous here and still displaying actively. Saw two good chases of 4 and 3 birds. They are acting early in the season-ish, albeit 19 June.

20 June — Heard at least 2 ♂♂ displaying over East slope of Village Ridge, but saw none on the ground.

22 June — Not a single bird on the great trek to the interior!

24 June — A pair on North side of Wolfelag Slough acted pre-incubation. Both birds standing together - ♂ twice pursued ♀ in ground display - wing flag, tail cocked, horizontal body, etc.. Good place to look for a nest later. No sign of pair previously hanging out by South end of Pitelka's Plot.

25 June — total of 6 nests located today - one with 2 eggs. 4 in Drum area, 1 in beach ridge polygons, 1 East of C. + G.S.. Birds are still active - chasing, ground displays - even one prolonged territorial encounter in Drum area. Localized several

Maclean
1966

C. bairdii

other pairs. Looks like that late influx really had an effect.

27 June — One bird feeding on high polygonal ground NW of micro-met. May be w/ nest.

Later - by jove - it is. Darrel Wemer stumbles upon a 1 egg nest 100 m. West of Micro-Met wanigan. Went to check it and found a 2 egg nest 40 m. NE of that one. We now have a total of 12 nests - more than any other species. Good. Hope I can fill in the data on this species.

29 June — Plenty of upland habitat South-West of village, but birds were infrequently seen. Birds seen were quiet and acted nesting; others could very well have been overlooked.

1 July — Didn't raise a single bird on and around Village Ridge. they must be there, but inconspicuous.

3 July — Saw a pair - or 2 birds, both evident and in no apparent hurry to get back on a nest - near SE corner of Holmes' Morass. A single bird West of this acted nesting. Should check this area again.

5 July — Found nest #23 ca. 70 m. SW

Maclean
1966

C. bairdii

of Lewellyn's wier. Collected feeding observations.

6 July — Looked at birds around Dacs with Brina Kessel. This forced me to appreciate the density — they're all over the place!

Eskimo Lagoon

#1 23 June, AM. 2 eggs Near gas line, W. side, about 10 m on low polygon mound.

#2 23 June, AM 2 eggs High polygon SE corner of Honey Bucket.

#3 25 June AM 4 eggs low polygon, E. side of Honey Bucket.

#4 25 June AM 4 eggs High polygon E side of Honey Bucket

#5 25 June 14:35 4 eggs High polygon SE of North Salt lagoon.

#6 25 June 1730 4 eggs Beach Ridge polygons

#7 25 June 1600 4 eggs - East of 3rd telephone pole from water line - Drum area.

#8 25 June 1800 2 eggs - at base of new telephone pole in drum area, SW of reefers.

#9 27 June 11:45. 4 eggs. Behind AACS cabin on ridge between Weasel tracks.

#10 27 June 1100 1 egg - 100 m. West of Micro-Met bldg.

#11 27 June 1700 2 eggs - 40 m. East of above

#12 27 June 14:00 2 eggs. 100 m. N of #1 along gas line

#13 29 June 14:00 3 eggs Drum Area 50 m. South of Animal cages

#14 29 June 14:15 3 eggs. Between telephone pole 1 & 2

#15 29 June 15:30 4 eggs Drum Area

Collection Records

— #18 1 July 21:15 4 eggs Drum Area at telephone pole
19 . 1 m S. E.

#17 1 July 2200 4 eggs Drum Area at telephone pole
21 . 4 m N. W.

— #18 2 July 4 eggs Drum Area 3 m E of
telephone line column pole 20.

#19 2 July 1115 4 eggs Drum Area 20 m E of
telephone line column pole 6?

Shot 8-July #20 2 July 2115 4 eggs Drum Area 15 m E of
telephone pole 1

#21 5 July 11:30 4 eggs 10 m N of Small Salt Lagoon
— #22 5 July 11:50 4 eggs 10 m N of Small Salt Lagoon
6 m E of #21

— #23 5 July 1500 4 eggs 70 m. SW of CREEK
Weir, along N. side of Wahlstag Slough.

#24 6 July 11:15 4 eggs Drum Area 1/2 mile NW of
cabin

— #25 7 July 13:10. Drum Area, about 1 m W of
pole line, across telephone pole 1 4 eggs

#26 7 July 13:20 Drum Area about 150 m W of
#25 4 eggs

— #27 8 July 18:00 Drum Area S of Pond Predict.
4 eggs.

— #28 9 July 10 m Drum Area W of Telephone pole
18 168 ml. 2 eggs

#29 13 July 10:50 S. of Fourth Salt Lagoon 4 eggs

#30 15 July 4 eggs

Shot 18 July #31 17 July N. end of Fourth Salt Lagoon 4 eggs

Calidris bairdii - check

25 June # 1 4 eggs N.V

" # 2 3 eggs (should have had 4th egg x days. N.V

26 June # 3 3 eggs at 12:00 N.V

29 June # 3 4 eggs at 16:00 NV

29 June # 12 3 eggs (should have had four). NV

30 June # 13, 14 4 eggs each NV

10, 11 both empty. Parasitic jaeger seen in area. SM.

2 3 eggs SM

2 July # 2 4 eggs N.V

5 July # 5 4 eggs N.V

18 4 eggs N.V

6 July # 3 4 eggs SM

8 July # 15 nest abandoned N.V.

10 July # 1 4 eggs (2 on nest) N.V & SM.

3 4 young - nest at 12:00 N.V & SM.

#24 3 eggs

11 July #2 - 3 eggs A.M. #11 - 4 eggs #9 fledged. #12 - 4 eggs

#26 - 4 eggs, #27 - 4 eggs #18 3 eggs #28 - 2 eggs

#14 - 4 eggs, #1 - 4 eggs #12 - empty (nest) #29 - 3 eggs

#7 - 4 eggs #16 - 4 eggs #30 - 4 eggs

all - A.M. N.V.

#24 - 3 eggs at 17:30

12 July #24 - 3 eggs at 11:00 N.V.

13 July #22 - one bird using one egg in nest (2) nest was almost complete. burrowed in the nest material and could have been hatched. eggs in this nest. Wne. I found it. I only saw three eggs.

#21 - 4 eggs.

#18 - 4 eggs - last at 22:00

Calidris bairdii

13 July #2 - nest empty at 19:45

14 July #1 - 1 dry, 1 wet, 2 pipped at 20:45

#4 - 2 wet, 2 dry at 21:00

16 July #28 fledged #20 4 eggs #19 4 eggs #21 4 eggs

#7 fledged #17 - 4 eggs #8 3 wet young, 1 egg at 21:15

#25 - 4 eggs.

18 July 3 hour watches on nests #13 and #25.
Incubating birds shot from #13 (♀) and #20 (♂).

#23 empty - 1 adult persistently in area, but no young. Presumed predated.

#31 - across river from above - watched, then incubating bird removed.

#30 - bird incubating.

20 July #17 deserted.

Macfarlane
1967

C. bairdii

5 June — Saw 2 birds, separately (could have been the same, but I don't think so), over Beach Ridge - the 1st flying with an active group of 3 alpina; the 2nd flying alone over ridge. No display.

7 June — 2 birds or more at Nuwuk flying w/ 2 pectorals. Continued to fly with these while ignoring active group of sanderlings.

8 June — Conspicuous in their absence - especially in Drum area where semipals were v. abundant and active.

9 June — Not a bird seen at W. Beach Ridge in the morning or in the Drum area in the afternoon.

10 June — Gasline area near mud-wet - nothing.
Similarly - Britton area.

12 June — Finally some activity in the Drum area - perhaps 10 birds spread about and displaying actively. Saw a good chase of 4 birds; later 2; several ♂♂ displaying. Obviously just arrived — no territorial encounters yet.

12 June. — In the afternoon checked Village Ridge in the hope that they have arrived there, too. Nope.

13 June — Heavy display from near Voth Creek. Saw a pair - ♀ with damaged foot -

13 June] near Micro Mer. Also saw a chase of 3 birds here.

14 June Heard good display over both creek and saw chase.

1 ♂ displaying right over Brownville in the evening.

15 June Were very active in the Drum area. Saw 2 nest cup displays, on either side of phone line, ca. 100 m. apart. May have been same or different pair. First time - ♂ dropped into cup when ♀ was near. He remained, scraping and dipping, ca. 30 sec, then ♀ got in for ca. 10-15 sec. Afterwards simply resumed feeding. Soon after - ♂ and ♀ were feeding, with ♂ intermittently calling and wing flashing. Walked apart in feeding; when ca. 12 m. apart, ♂ dropped into cup and called white scraping. ♀, obviously attracted, came over and replaced ♂ in cup. Then ♀ exited and, without any additional apparent precursor, attempted copulation occurred next to cup. Copulation did not appear to be successful. Birds then separated and resumed feeding. Other pairs were active in Drum area - at least 6 pairs. I made no attempt to census, since Karl should have this information.

C. baird:i

18 June — Not a single bird seen in good uplands, polygonized tundra E to W of footprint Lake.

19 June — Birds are still fairly abundant and active in the Drum area, but nearly absent elsewhere. Kent has found only 2 nests in the Drum area, but there are more, and other pairs appear to be still laying.

Saw one pair near Beck Construction Camp, but no others along bluffs SW of village, down to Kuniuac Slough.

22 June — Caught a nesting bird in the Drum area by laying the insect net next to the nest and flipping it over when the bird settled onto the eggs. Banded this bird. tried the same on a new nest (4 eggs) that I found just East of the pipeline and just missed. In the evening caught and banded one bird from the nest near the water-line. these should help us answer the question of who incubates what in this species.

23 June — Found a 4-egg nest just West of the gasline and South of the one found yesterday. Encountered 2 pairs along the SE side of Honeybucket lagoon where

Maclean
1967

C. bairdii

they have nested before. [I told Karl to check this area but I don't think he did.]

In the afternoon - found none in both area or on Village Ridge, then one feeding busily on Beach Ridge South of Fad. Above my first good feeding observation of the season.

24 June — Found a 4-egg baird nest next to a previously staked semi-pal nest in the Drum area. Set up a nest-check system to record which of the pair is incubating at the nests with banded birds. Banded birds at 3 more nests, so that we now have banded birds at 5 nests. For now, we will not set a rigid schedule for checking.

26 June

Hachesen
1967

C. bairdii

-13 July — Saw none at Meade River.

17 July — 1 adult with 4 young juveniles by aacs, on East side of main road.

23 July — 1 adult w/ young between No & So. Meadow lakes in v. low, wet, ponded low polygon tundra. Must have been quite small - I never actually saw them but behavior of adult left no doubt.

1 August — Peculiar - an adult in the drum area was acting as if it has small young nearby - even went into distraction run. Nearby - a flying bairdii immature. Tried twice but couldn't find the young.

} adults have been hanging out by the corner of Central Marsh - flying between the west road and Beach Ridge

Maclean
1968

Calidris bairdii

8 May — Unless surfbirds also have a baird-like rattle note, heard bairdii this afternoon.

9 May — Saw and heard more bairdii today. they are widely spaced along the ridges. Lots of short display bouts with rattle note, but no sustained display.

22 May — Saw a flock of 7 feeding in a wet gravel pit beside Steese Highway ca. mile 32.

23 May — More birds and more display activity than previously, while other shorebirds seemed down.

26 May — Birds are now extremely numerous along the ridges and upland terraces. they were displaying very actively today. Saw both pairs and small groups of up to 5. At least here low densities in the mountains can not be blamed for Dixon's claim that they are silent on the breeding grounds.

28 May — More of the same. Birds are largely paired. there is a fair amount of display, but pairs are spaced out so that there is little interaction between pairs. Still some small groups moving in the area.

Macleon
1968

Calidris bairdii

2 June — the first sighting at Barrow: saw 2 ♂♂ chasing each other about behind Browerville. the tundra there was only slightly exposed – a few islands of high-center polygons. Watched the birds do a little feeding there.

4 June — Saw 1 bird on small exposed mounds near AACS.

5 June — at least 1 pair was by the west end of trapline IX.

7 June — Still there, but not many others.

9 June — Ditto.

11 June — there has definitely been a major influx. Birds are quite noisy over raised areas. I am again impressed that bairdii can entertain themselves on much smaller patches of exposed ground than the other Calidritines. Interesting – this, one would think, would enable them to arrive early, yet they arrive late. Perhaps both points – late arrival and association with small patches of exposed ground – relate to exclusion by other birds. the matter of territory utilization, both within and between the species, remains to be worked out.

13 June — Again – many birds heard displaying, but spread over the whole area, not in aggregations as often appears. Not much in

Maclean
1968

C. bairdii

	before	after
(13 Ju	13.5	9.0
not	11.2	9.5

7:5)

193 #1	82.1	9.6
2	82.2	9.7
3	81.5	-9.0
1	82.0	9.5
		37.8
$\bar{X}$		9.45

between pusillus and alpina.

Machean
1968

C. Dau.-

(13 June) the Drum Area yet.

20 June these are now up to normal or better and still very active. I think there are many eggs still to be laid.

Yesterday afternoon, ca. 4:00 P.M. Tom found a 3-egg nest at the South end of the Drum area. today at 1:00 P.M. Pete and I went out with a Saikkeli-style trap. the nest was now 4 eggs. Used the trap to get one bird. Just as this one was going on the nest another baird flew in and sat ca. 30 m. from the nest, then moved away to other side of nest, ca. 40 m. away. I shot this bird (SM 898) and killed the other (SM 899), then collected the eggs. the incubating bird ~~eggs~~ (899) was lighter - presumably the ♂, although heavier than the 2 birds taken by Pitelka the other day (SM 894, 895).

Nest #1

	before injection	after injection
898	43.5	44.0
899	41.2	41.8

∴ a correction of 0.5 g. is appropriate for bairds and semi-pals.

the eggs weighed: (#1) 9.6g, (#2) 9.7g, (#3) 9.0g, (#4) 9.5g $-\Sigma = 37.8$g, $\bar{x} = 9.45$g. this seems to fall ar about the right point between pusillus and alpina.

Mackeen
1968

C. bairdii

22 June — Saw a ♂ fuscicollis displace a feeding bairdii near Micro-Mer.

28 June — two nests with 2-eggs each were found today! Pete and I found one in high polygon area So. of Family Lagoon, and Safriel's boys found 1 in the drum area near the spot where I removed a pair with 4 eggs on the 20th. there are probably others in the area. there were at least 5 bairdii by the Family Lagoon area, in it appears that a pair is squeezing in just behind the animal house.

1 July — Summary of above 2 nests –

Nest #2 — Gasoline Incr. nest (drum area)

28 June - 1300 2 eggs
29 June - 1245 3 eggs
30 June - 1330 4 eggs

Egg weights:

can't distinguish { #1 : 9.6g
2 : 9.3g
3 : 9.9g
4 : 9.6g

$\Sigma = 38.4$
$\bar{x} = 9.6$g.

Presumed ♂ : 40.5g yellow band
♀ : 48.5g red band

Maclean
1968

C. bairdii

(1 July)
Nest
#3

Family Lagoon nest
28 June - 1600 - 2 eggs
30 June - 1430 - 3 eggs
2300 - 3 eggs.

Egg weights:
can't distinguish { #1 - 9.0
2 - 8.7
3 - 8.9

$\bar{x} = \frac{26.6}{3} = 8.87$g.

adults: 44.5g yellow bands (♂?)
45.5g red bands (♀?)

Note that mean egg weight and weight of ♀ is low in this 3-egg nest.

2 July
Nest
#4

New nest; 4th egg lain today. [Safriel #21, near dewline site:

Egg #1 : 9.1
2 : 9.3 $\Sigma = 36.8$g.
3 : 9.0 $\bar{x} = 9.2$g.
4 : 9.4

Presumed ♂ weighed 40 g. (2015)
Presumed ♀ .... ooops - lost to predation by 2345

Nest
#5

New nest found by Custer - Drum Area, east of pole #16

Σ eggs = 38.4g ; $\bar{x} = 9.6$g
presumed ♀ - 44.5g.
♂ - 38.5g.

Maclean
1968

C. bairdii

3 July — there are 3 known 3-egg nests in the drum area now, and probably more. this late burst is amazing; there are young out as eggs are being laid.

4 July — the two close nests remain with 3 eggs each.

5 July — three eggs they shall be. Sabriel took one nest and added the eggs to the other. So it is clear now that late clutches are more likely to stop at 3 eggs. this is surely a factor in the 1965 situation.

Maclean
1969

Calidris bairdii

9 June — the first I have seen this year - a good population in Britton's area. they were displaying and chasing actively - obviously a number of birds have already claimed territories. Late arrival - immediate onset of activity. FAP reports similar observations in the Drum Area. Collected (actually, DWW did it) 2 birds on Britton's Area - SM 1018, 1019.

10 June — they have really jumped right on it. Saw populations on Britton's area and the Drum area that were displaying actively and, especially, chasing all over the place. One ♂ on B's area was chasing longspurs when he couldn't find any bairdii to chase. this bird was also doing a good deal of wing flashing. bairdii are also occupying small exposed sections of Gasline and Beach Ridges.

11 June — About as yesterday. A pair on the bar - slightly exposed bluffs No. of Footprint Lake.

Picked up a very fresh wire-kill on East side of road, across from F.A.A. - SM 1038.

12 June — Bill Berry and I saw a full nest cup-copulation sequence, and Bill made some

Machesa
1969

(12 June) good sketches of these. I was watching both birds feed quietly, ca. 30 m. apart. Suddenly the ♂ felt horny. He flew to the ♀, waved a wing, and then went into a tail-cocked, forward posture while still holding the close-side wing up. He then dropped the wing and immediately went into the nest cup. this lasted only 10-15 sec. He got out and the ♀ entered for <5 sec. She got out and flew ca. 15 m. He followed, and copulation immediately ensued. It was a long copulatory sequence, and appeared to be successful. Both birds then preened and resumed feeding.

13 June A great deal of very prolonged aerial displaying, both over Britton's Area and, particularly, over Voth-Cake-Easter area, sensu latu.

14 June Again - by far the noisiest sandpiper. Birds are displaying constantly. Saw one chase over far SE of Voth Crossing that involved 5 birds briefly, then broke into 3 and 2. they keep giving the impression that there are lots of ♂♂ but too few ♀♀.

16 June Still the only actively displaying sandpiper. they were abundant on the extension of Gasline Ridge, as on about

C. bairdii

16 June) every piece of uplands tundra in the area. Collected 1 - not seen displaying: SM # 1041.

17 June A number of ♂♂ displaying and chasing in groups in the Drum area - they act like unpaired birds. Others are paired and probably laying. 1 bird kept sitting in an empty nest cup. these out number pusilla in the Drum area ca. 4:1.

19 June found 2 4-egg nests today - 1 in the old village cemetary, 20 m. North of the grave of Sam Hopson (1903-1927); 1 south of South Salt Lagoon. there are others to be found there.

20 June A rare find: Tom Schwan found a 1-egg nest just west of the gasline, west of Gasline Ridge. there is another pair ca. 100 m. west of these.

A 3-egg nest by stake III 9.2 of line III B, found last night, still has 3 eggs.

Tom Schwan found 2 3-egg nests in the Drum Area, W of pole 8 and east of pole 12 (20 m. south of where bird sat in empty cup on 17 June).

21 June the 1-egg nest is empty; the III-B nest is still 3 eggs and probably done. Went into Drum Area - both nests now

21 June) have 4 eggs. Trapped one bird from each nest: pole 8 - ♀ incubating - weighed 42.5g - given one band; pole 12 - ♂ incubating - 36.5g - given band on each leg. No other bird by either nest.

22 June Went out to collect the above nests. Nest #12 - unbanded (♀) incubating; banded bird nearby. Collected both (SM 1060, 1061) adults had 4 eggs: 9.9, 9.8, 9.8, 9.7 grams.

the other nest by pole 8 - the banded bird was incubating, with no other in sight. I collected this bird - the ♀ - SM 1059. It turns out to be a ♀ with a shelled egg in the oviduct! i.e. - a 5th egg. And just where did she plan to drop that egg??? I think I'd better go some banding in the Drum area. the four eggs of the clutch she was incubating weighed: 10.2, 9.9, 10.2, 10.2 grams. [note: because of the bands on the bird there was no chance of confused identity. Did not yet autopsy the bird to count ruptured follicles.]

Saw 2 birds displaying high over Barrow village.

25 June Found a 2 egg nest - but probably

C. bairdii

25 June) done - on the north slope of the Beach Ridge.

26 June ♀ is still 2-eggs.

Found a 4-egg nest but probably quite fresh in the Drum area, adjacent to camp.

27 June tom Custer found a 3-egger in the Drum area, east of pole 9.

28 June Found 2 4-egg nests along South slope of Beach Ridge. there is quite a colony in that area - from Micro Met to USCans 9S.

6 July First hatchings today.

Erolia melanotos
is now
Calidris melanotos
per AOU 1998

Maclean
1964

Erolia melanotos

10 June — 2nds in abundance (after White-rump) along beach ridge and gas line ridge. Aerial display frequently seen and heard: fly ca 10 ft above ground with breast inflated giving deep, pulsating "electronic beep" sound. ♂'s appear to outnumber ♀'s ca 2/1. ♀'s often chased by ♂'s - 1 or 2. ♂ displayed to by white-rump. Another ♂ chased by W-R.

Evening - most abundant shorebird in Voth area, especially Voth bluffs. 2 ♂'s displaying to ♀. Fly by observers, but stop beep and glide on level wings, throat less distended.

11 June — None seen in Drum area.

12 June — One on ground in center of area announced and defended by white-rump. Displayed once.

13 June — None in marsh between Pond + Fresh Lake. One ♂ seen in grass in E. Fresh Lake marsh. Quiet.

15 June — Very common in wetter marshes. Still 2-3 ♂♂/♀.

Ground courtship 3 of AACS - ♀ leaning forward, tail up . ♂ approaches from behind in bobbing, upright posture, moving throat region. continues ca. 8-10 sec - interrupted by another ♂. Chases and returned, other ♂ returned. Spent 15 min trying to

C. melanotos

chase off other ♂ long enough to get in. No such luck.

♂ chases by ♂ semi-pal - flew ca. 20 ft - returned to ♂ SP, gave "battering ram" display - head and body level, "hunched".

Did same to Baird ♂ and Buff Breast (sex?)

Bird w/ broken wing found on beach ridge, near micro-wet.

16 June — Abundant in wet habitats. Aggressive toward Buff-Breasts, Baird's, White-Rumps, Semi-Pals.

18 June — Abundant in marshes E. of gas-line. Often encounters groups of 3-5 ♂♂ showing intermittent aggression - would stir 5-10 ft. apart, then suddenly chase. After chase often landed together again.

20 June — Flock of at least 14 ♂♂ seen near center of Pitelka Plot. Appears to be conflict of aggressive and gregarious tendencies - birds unsettled, more frequently within flock. Movement of one causes movement of adjacent birds - "chain reaction" of part to all of flock, often resulting in short chase and flock resettlement.

♂ flew into flock, assumed aggressive posture, charged 1 of flock 3 times, until this flew. Repeated with another; continued until 6 separate members of flock forced to take flight. Flew ca. 20 yds.

Maclean
1964

C. melanotos

Flock dispersed by intra flock aggression at this point - could not differentiate antagonist ♂ in flight.

Other flocks of 8, 6, and 6 seen acting similarly unsettled.

22 June — Flock of ca. 8 - 3. drum over.

♂ attacked briefly twice by ♂ bird's on ground. Did not reciprocate.

23 June — Flocks of 10, 12, and ca. 15

Nest - A eggs - 200 yds SW of micro met, 100 yds W of Gas-line.

25 June — Very common, universally distributed inland, in flocks to 50 plus territorial individuals.

3 July — Occasional ♂♂ still seen. 1 hears displaying. Voice has "hoarse" quality.

Flock of 7 ♂♂ + 1 Buff-Breast on gas-line ridge.

Nest found (in 1 SA 3 4) 180 yds S. of AACS.

6 July — Nest found (4 eggs) on Beach Ridge 150 yds. So. of row of barrells.

10 July — Chick (Maclean 271) taken from pond edge in polygonal area NW of gasline ridge. 4 chicks with adult.

13 July — Flock of ca. 10 ♂♂ in Voth Area.

Nest ~~on top of beach ridge~~ hatching - 3 out, 1 in. 1/2 shell ca. 6" from nest cup.

14 July — Nest in Holmes Morass - NE of center of

Macbean
1964

C. melanotos

Pitelka's Plot - just harches. all 4 out and wet. 2 ♀♀ in immediate area. Flock of ca. 10 ♂♂ seen.

16 July — Nest just hatching - W. side of Gasline Ridge. All 4 out of egg - wet.

18 July — 1 ♂ flying immature seen - polygon area ~~Sedro~~ on road to Gasline Ridge.

19 July — kill of traplines 13+14 - fertilizer plot (wet marsh) exclusively pectorals. Suggests use of trapline kill data as index of habitat preference.

31 July — Juveniles not more than 3 days out of egg seen next to flying immatures. Tremendous overlap, no?!!

ocbo 1964		Calidris melanotos		15 June
1. ♂	Drum area	10:02 A.M.	Wet marsh	jab or probe, then chases ♂ pec.
2 ♂	"	10:05	elevates pond edge	tail fanned, chest out, preening. no feeding.
3 ♂	"		elev. rise in wet marsh	stood, then flew and displayed
4 ♂	"	10:23	Pond edge - wet marsh	Probing?? (Does not raise head after each strobe, ∴ hard to tell.)
5 ♂	"	10:25	high point in wet marsh	stood, facing wind.
6 ♀	"	10:36	wet marsh	jabbing. moved 3 m.
7	"		Pond edge	jabbing. Moved across drier mound to another pond.
8	"		mound between ponds - low veg.	Preening. facing wind.

clean

1964

C. melanotos

15 June

9. ♂	S. of AACS	11:10 A.M.	wet marsh	stood. Jabbed once.
	Chased pair of buff breasts short distance.			
10.	"	"	wet to mesic marsh	standing, facing wind. Chased another ♂, then display flight.
11	"	11:15	wet marsh	jab and/or probe - ca. 10 times
12	"	11:20	"	"
13	"	"	"	" + 1 peck.
14	"	11:25	"	"
15	"	"	"	"
16.	S.E. of AACS	11:32	Pol. ridge above wet-mesic	stood, then flew.

clean 964

C. melanotos

15 June

17 ♂	W. of Beach Ridge	11:40	wet-mesic marsh slope	stood, facing wind.
18	"	11:42	wet-marsh	"
19	W. slope of beach ridge	11:48	mesic marsh slope	" preened
20 ♂	E. of AACS	12:00 noon	wet-mesic marsh	"
21 ♂	"	"	slope above pond	jab ca. 8 times.
22 ♂	Central Marsh	9:30 P.M.	Pond edge	Pecked 1-5 times
23 ♂	"	"	Ridge above pond	Preening under wing and breast
24 ♂	Beach Ridge	9:42	Pond edge	landed after display flight

clean
964

C. melanotos

15 June

25 ♂♂	Beach Ridge	9:45 P.M.	mesic meadow	"competitive display" - for 5 min, off and on.
—				
26 ♂	S. of AACS	3:55 P.M.	wet-mesic marsh	Grounds display to bared's.
—				
27 ♂	S.W. of AACS	4:05	wet-mesic marsh	75% probe; 25% jab
28 ♀	S. of AACS	4:15	Dry polygon above wet marsh	jabbed - moved to mesic grass - jabbed.
28	"	"	Pond edge	Jabbed - moved onto dry polygon - pecked
30	"	"	wet marsh	Probed. Moved to pond edge - probed.
31	"	"	wet marsh	Probed 6 times
32	"	"	wet marsh	Probed (?) stopped feeding + moved across mesic ridge.

release
964

C. melanotos

15 June

33 ♂	Gasline ridge	4:32 P.M.	Dry. brown top polygon	Peeks or two, chases Semi-Pal
34 ♂	NE of gasline ridge	4:36	wet marsh	jab-probe
35 ♂	"	4:52	wet marsh	probe. few jabs 70% 30%
36. ♂	W. of Micro-met	5:10	wet marsh	60% probe 40% jab.
37	"	"	"	groans. courtship. see field notes.

Maclean 1964 — C. melanotos — 17 June

1.	Drum area	8:45 A.M.	veg. size of pd.	stood. flew.
2	"	9:35	wet marsh	peek and Jab (20-50)
3 Pr.	W. of AACS	9:43	wet marsh	♀ sitting; ♂ standing + preening.
4 ♂	E. of gasline ridge	10:18	Polygon over wet marsh	stood, then flew + displayed.
5	"	"	"	stood preening, then "squeak".
6 ♂	W. of Beach ridge, S of micro net	10:23	"	stood, flew + displayed, dances next to ♀.
7 ♀	"	"	wet marsh	jab ca. 12 times. flew.
8 ♀	"	10:40	wet-mesic marsh	peck. Jab (50-50)

Maeba
1964

C. melanotos

17 June

9. ♂	SW of micro-mes	10:45 A.M.	wet marsh	jab actively - ca. 16 times
10 ♀	"	"	pond. edge polygon	pecking. flew.
11. ♂	Beach ridge, S. of micro-mes	10:50	wet marsh	jabbing actively - ca. 8 times.
12	"	"	polygon over wet marsh	Preening.
13 ♂	"	11:00	"	standing, surveying his kingdom
14	"	"	wet marsh	Few jabs - flew to polygon.
15 pr.	"	11:08	mesic ridge top	♀ sitting, ♂ standing
16 ♂	"	"	Pr. top in snow bank on ridge top	standing.

Raelea
1964

C. melanotos

17 June

17 ♀	S. of micro ver. on Beach Ridge	11:09 A.M.	pol. top on ridge	standing
18 pr.	"	11:18	"	♂ standing; ♀ sitting.
19 ♀	Beach Ridge between micro & mes Wdg	11:27	pol. top	standing
20 ♂	"	"	pol. top	"
21 ♂	W. of Beach Ridge	11:48	Pol. edge mes marsh	3 standing 9 nymphs.
22 ♂	"	"	mes marsh	standing.
23 ♂	Beach Ridge	5:10 P.M.	Dry ridge top	sitting.
24 ♂	Rem in Beach ridge	5:27	mes. meic & ridge slope	~~1070~~ ~~pole~~; Stood, then flew + displayed

acheon, 1964		C. melanotos		18 June
1.	E. of AACS	10:36 A.M.	flooded weasel track	Peeking.
2	SE of AACS	10:46	Polygon over wet marsh	standing.
3	"	10:50	"	2 ♂♂ standing together. another 20 yds. away. " " from him.
4	N. slope of Beach Knoll	11:01	hump in wet-mesic slope marsh	sitting.
5	"	"	"	"

Mackay
1964

C. melanotos - leaping observations

21 June

N. slope of Beach Ridge

(1) -4P- 1 (6) - 5A - 2 - 4

weaved track. jab as mass threat. beat: 1-4

~~1 min.~~

(3) 4P - 1 - 4A - 2 - 3

jab : 1 ~~1/4 min.~~ 1/4 min.

(4) 8P - 1 - 5A - 3 - 4

jab : 1 5 min.

22 June

002

♂ 9A - 1 - 6A - 3 - 3 2¼ "

jab: rapid series, lean down

S of AACs

003 ♂

♂ 9A - 1 - 6A - 3 - 3 1½ "

jab: series

004 ♂

♂ 9A - 1 - 5A - 2 - 4 1½ "

N-slope of Beach Ridge

007 ♀

10A - 1 - 5A - 2 - 3 ¾ "

" chases by 3 ♂♂

008 ♂

10A - 1 - 5A - 3 - 4 ¼ "

jab "

display as ♂; chase ♀

009 ♀

10A - 1 - 5AB - 2L - 2 3 ¾ "

(cont.)

Maeloa
1964

C. melanotos - basing observations

22nd June

009 ♀ (cont)

10A - 1 - 5AB - 2L - 2 — 3 1/4 "

jab 1-6, very rapidly

10A - 1 - 5A - 3 - 2 — 1 1/2 "

011 ♂

11A - 1 - 5AB - 2 - 3 — 1 "

gasline mess

013 ♀

11A - 1 - 4A - 2 - 4 — 1/2 "

1 - 6A - 3 - 4 — 1/2 "

1 - 6A - 3 - 4 — 1/2 "

1 - 5A - 2 - 4 — 1 3/4 "

jabbing very actively.

014 ♀

11A - 1 - 3B - 2 - 3 — 1 "

jabbing lazily.

019 ♂

2P - 1 - 6AB - 3 - 3 — 3 1/4 "

jab/probe

021 ♂

3P - 1 - 5A - 2 - 4 — 1 3/4 "

jab/probe leisurely

1 of flock of 4.

028 ♂

3P - 1 - 5A - 3 - 3 — 1/4 "

029 young ♂

3P - 1 - 5A - 2 - 3 — 1 "

jab leisurely

Mackerras
1964

C. melanotos - fencing observations 3.

22 June

032 ♀

4P 1 4B 2 3 1 1/4 m

5 — — — 1 "

jab/probe in weasel zones. battles.

033 ♀

4P - 1 - 6A 3 3 3/4 "

037 ♀

5P 1 5A 3 3 1 "

040 ♀

5P 1 6A 2L 4 1/2 "

043 ♀

5P 1 6A 3L 3 4 3/4

rapid jabbing : 2-4

044 ♂ (with ♀ 043)

5D - 1 6A 2L 3 5 "

23 June

047 ♀

9A 1 5A 3 4 1/2 "

rapid jab

048 ♀

9A 1 6A 2 4 2 "

jab- ser. to 6 + some 1. moves - fast.

moves 1 yo. in weasel path.

049 ♂

9A 1 6A 3 3 4 1/4 "

ser. lep jabs, to 6. moves 2 yds.

in weasel path, N of micro-mat

054 ♀

10A 1 5A 3 3 5 "

Lecture 1964

C. melanotos - feeding observations

23 June (cont)

055 ♂

10A	1	5A	3	3	2 1/4 "
	1	5A	3	4	2 "

062 ♂

10A	1	6A	3	3	2 1/2 "

deep jab · moo. rare. moved by ♀s.

063 ♂

10A	1	6A	3	4	5 "

jab/probe. moo. ~~rare~~

064 ♂

11A	1	5A	2	4	1 1/4

weasel track

065 ♀

11A	1	5A	2	4	1 "

jab rapidly. Then flew out of sight.

066 ♂

11A	1	5A	3	3	2 1/2 "

moo. jab.

071 ♀

3P	1	5A	3	2	2"

077 ♂

4P	1	6A	3	2	5"
4P	1	6A	3L	4	4"
	5	—	—	—	1"
	1	6A	2L	4	5 "

out of flock of 11

080 ♂

5P	1	5A	3	3	1 "

Maclean
1964

C. melanotos - female

23 June (cont)

088 ♂

5P	1	CA	3	4	5"
	1	6A	3	4	5"
	1	CA	3	4	5"

flock of ca. 15
w/ 2a ; 2f.

089 ♂

5P	5	CA	3	1	1"

24 June

097 ♂

5P	1	5A	3	4	5"

101 ♀

6P	1	5A	3	4	1/2
	1	5A	3	5	1/2

rapid jab

104 ♀

9P	1	6A	3	4	2"
	6	4B	–	3	1/2"
	2	4B	3	3	2"
	1	5AB	3	4	5"

26 June

105 ♂

10P	2	5A	3	3	1/2"
		5A	3	4	3/4"

27 June

106 ♀

3P	1	5A	3	2	5"
	1	5A	3	2	5"

107 ♂

3P	1	6A	3	3	1 1/2"

Mackean
1964

C. melanotos - feeding

27 June 109 ♂

4P 15A 3 2 2"

28 June 112

1P 4/5 1B — 3 5"

120

2P 5 5A 4 3 2"
" " " " 1"
" " " " 2"
" " " " 1"

probe - rapid sets.

123 ♀

3P 1 6A 3 4 2"
" " " " 2"

jab,
5 3A — — 2"
probe

124 ♀

3P 5 -A — — 3"

probe - ~~ser.~~ to 6

130 ♀

4P 1 6A 3 4 3 1/2

probe, jab, few peck.

131 ♂

4P 4 5A 3 3 2 1/2"

137 ♂

5P 5 — — 1 4 1/2"

jab or probe (head under water)
5 1B — 3 1/2"

Maclean
1964

C. melanotos - pairing

28 June

140 ♀

4P 1 6A 3 4 5"

29 June

148 ♀

10A 1 6A 3 2 1"

150 ♀

10A 1 5A 3 4 2½"

rapid single jabs?

162 ♀

2P 5 6A 3 1 4¼"

1 6A 3 3 1"

163 ♀

2P 4 5A 4 2 1¼"

probe in rapid ser.

167 ♀

3P 1 6A 3 4 1 3/4"

168 ♀

4P 1/6 4A 3 2 2¾"

probe- rapid ser. to 10.

169 ♂

4P 1 6A 3 4 3"

≡

1 July

173 ♀

1P 1 6A 4 2 1¼"

1 5A 3 3 ¼

1 5A 3 3 2"

1 5A 3 2 3"

Probe

Mackeen
1964

C. melanotos

1 July 177 ♀

2P 1 6A 3L 3 3/4"

178 ♀

3P 1 5AB 3 3 2"

2 July 180 ♀

11A 1 5A 3 4 1 1/2"

" " " " " 1 3/4"

peck

184 ♀

11A 1 5A 3 5 1"

peck - 1

185 ♀

11A 1 6A 3 4 3/4"

186 ♀

11A 5 3B 4 1 1 1/2"

3 July 190 (♂)

3P 1 5A 3 4 3/4"

191 ♀

3P 1 5A 4 4 4"

peck

195 ♀

3P 4 5A 3 4 1 1/2"

" " " " 5 "

peck

199 ♀

2P 1 5AB 2 4 2 1/4"

1 5A 3 4 1/2"

Maclea
1964

C. melanotos

3 July 200 ♂

5P 5 5AB 4 C 1 1/4"

202 (♂)

9P 1 4A 3 4 1"

1 of flock of 7. peck (?)

4 July 204 ♂

3P 1 6A 3 4 1"

peck

6 July 207 ♀

9A 1 5A 3 5 2"

peck

211 ♀

10A 1 6A 3 5 1/2"

1 5A 3 5 1 1/2"

peck.

217 ♀

11A 1 5A 3 4 3/4"

peck

222 ♂

3P 1 4A 3 4 1"

w/ 5 ♂ m, 1 ♀.

224 ♂

3P 1 4A 3 5 1"

1 ♂/ 10

229 ♂

3P 1 5A 3 5 1"

8 July 235 ♂

10P 1 4A 3 5 5"

Maclea
1964

C. melanotos - feeding

10 July 249 ♀

4P 2 5A 3 4 1"

251 ♂

4P 1 6A 4 4 2"

" 2"

252 ♀

4P 5 — 1 2½"

probe

11 July 256 ♀

4P 1 5A 3 5 1¼

13 July 263 ♂

2P 1 5A 3 5 1"

5A 3 4 1"

flock of 4.

264 ♀

3P 5 1B — 1 1"

probe

265 ♀

3P 1 5A 3 4 4"

1 5A 3 2 1"

peck probe

266 ♀

6P 5 1B — 1 1½"

probe

14 July 271 ♀

3P 5 1A 1 3 4"

probe

Maclean
1964

C. melanotos - fencing

14 July

272

4P 1 6A 3 4 1'1/4"
" 3/4"

1 of 5.

274

4P 1 5A 3 3 1'1/2"

276

4D 1 6A 3 4 1"

Maclean
1965

Calidris melanotos

10 June — Saw lone ♂ along N. bank of Wohlslag Slough, standing quietly.

12 June — Lone ♂ along E. edge of Holmes' Morass, feeding near 2 C. alba. No time to observe more.

13 June — 1 ♂ on Gasline Ridge. No others seen from Drum area, Voth, gasline, to upper Wohlslag Slough.

14 June — ♂ and ♀ seen by SE corner of Holmes' Morass, near mouth of Wohlslag Slough. ♂ made ground display - tail cocked, wings slightly drooped - to ♀, but without any sound. ♀ flew short distance, ♂ follows, then both resumes feeding. ♂ made several long flights, but no aerial display. Birds tended to stay together.

16 June — ♂ and ♀ just South of Brant Point. Feeding actively. Still no display heard. The most noticeable variation in bird life is the lack of pectorals.

In feeding, jab to depth similar to alpina, but jab in more distinct series.

19 June — First aerial display seen 3 times in Voth Area. ♀ collected after feeding observation (#095) - ovaries just beginning to enlarge.

Birds are still very infrequent.

21 June — Checked AACS - Micro Met area —

Maclean
1965

C. melanotos

normally good pectoral country. If so, it's going to waste. Saw a total of 2 ♂♂ and 1 ♀. Saw 2 courtship chases plus displays by both ♂♂. Got good feeding observations on the beasts.

22 June — One pair, mostly feeding, at East end of Marass. Others should have been there, but weren't.

23 June — As before, very scattered with some display - this time in Voth area. ♀ collected -

25 June — Saw a total of about 6 displaying ♂♂ - most to date. One ♂ at AACS chased ♀ twice, displayed. Also chased away displaying white-rump and red-back. ♀♀ are rarely seen. If here, they are staying low. Found ♀ dead on snow near gasline, N. of micro-met. ~~[illegible]~~

26 June — Again ♂♂ seen without ♀♀ anyplace in area - this time in Holmes' Marass.

27 June — Flock of ca. 16 (± 4) - approx. equal number of ♂♂ and ♀♀ - forms in AACS marsh. Birds are definitely social - feeding in flocks turning over an area of about 3 acres - but sexual

Maclean
1965

C. melanotos

activity is beginning to disrupt flock order. ♂♂ were begining to isolate selves - would chase around area, then land and feed together. Occasional groun displays to ♀♀ and sexual chases, along with aerial displays. Believe this to be a group of newly arrives birds which will disperse and attempt breeding.

28 June — Out to same spot, and birds are beginning to disperse. Flock now occupies ca. 6-7 acres. One distinctive droopy-winged ♀ has moved across the gasline, along with ca. 3 ♀♀ + 2 ♂♂. No real increase in reproductive behavior - mostly dispersion activities among ♂♂.

29 June — Same group seems to be further dispersed, but change in behavior is not as marked as I has expected. Saw 2 + 3 ♂♂ chasing 1 ♀ for prolonged period of time - using 1 heck of a lot of energy! Mostly just feeding, with little regard for position of other birds.

Larger flock in central marsh at approx. same reproductive stage. Did not have time to note extent or numbers of flock. As others - mostly feeding with occasional disruptions for sex-related behavior.

Maclean
1965

C. melanotos

30 June — Observes Central Marsh flock while watching for Mongolian Plover. One ♂ appears to be more advanced or excited than others - initiates two ~~ter~~ territorial chases, then gave grouns display to feeding ♀. Very well developed display. ♀ moves away ca. 10 ft, then flew when ♂ continues display. ♂ follows. Joined by other until 5 ♂♂ chasing ♀. Finally broke off ~~when~~ and all resumed feeding.

Am wondering if flock can disperse and complete reproductive effort in time to produce young. Am also wondering if they are even going to try!

1 July — AMCS pectorals are in no hurry; still largely social with bursts of reproductive activity. Mostly courtship chases involving several ♂♂ + 1 ♀ or shorter territorial chases w/ "garbling" note. Occasional aerial display.

2 July — Seem to be fewer birds + less activity in brief check.

3 July — ♂ + 2 ♀♀ by road crossing on beach ridge. May be nest in area.

5 July — Occasional bird encountered along S edge of Holmes' Morass - some apparently territorial, but encountered 2 ♂♂ together. Birds in Central Marsh appear to have

Maclean
1965

C. melanotos

given up any thought of breeding — completely (but loosely) social groups of both sexes intermixed. Have heard no display since 1 July.

6 July — AACS birds have given up the effort. Feeding completely socially, with no apparent regard for sex.

Hears one "boom" aerial display by traplines IV A-B. Apparently everyone hasn't given up.

7 July — Observes and collects along Voth Creek. Highly social and unsettled — flew readily along creek. Collects 3 after feeding observations — (1) regresses ♂, t = 5mm - throat region much regresses; (2) ♀ coming up 2nd time - old brood patch + ruptures follicle, but enlarges ova; (3) ♀ with brood patches inactive through for the year. Apparently there has been enough activity to keep ♀ (2) active.

Mackeen
1966

Calidris melanotos

9 June — Occasional sightings before this date. today - 1 ♂ with well developed throat sac seen in North Area, by West side of Honeybucket Lagoon.

10 June — Pair by Elson Lagoon, S. of Brant Point. ♂ gave good display over ♀ on ground several times. Once ♂ chased ♂ redback. ♀ feeding very actively in short (2-4) bursts of jabs. Moved around while feeding more than nearby redbacks. Since she was crossing habitats, more style counts difficult. Interesting - apparently arrived paired.

Mackenzie
1966

C. melanotos

16 June
19 June

At Meade River - these were widely, if sparcely, distributed and hoots were regularly heard. Distribution is about as expected - wet marshy stuff is essential, at least in part of territory. Birds found on Paul's census plot use pond basins to feed - tool over tussocks displaying, also feed in wet Carex between tussocks. Very hard to observe under these conditions. Population is enough for habitat comparison, but insufficient for sustained collecting for stomachs.

20 June

Spent entire afternoon searching good pectoral habitat between Voth area and Village Ridge and finally found one pair. ♂ even hooted at her once. they are sticking close, and are probably breeding. Obviously, tho' - this is not a pectoral year.

In the ~~afternoon~~ evening, over Gasline Ridge, 2 ♂♂ chased a ♀ with good flight "gargle" noise. Couldn't find any on the ground.

21 June

Across Voth Creek - saw 4 ♂♂ and 1 ♀. ♀ was harassed by 2

Maclean
1966

C. melanotos

of the ♂ when I flushes her, but birds are not strongly aroused. this matter of sex ratio remains puzzling. Granted ♂♂ are more conspicuous than ♀♀, but we have seen many more ♂♂. ♀♀ couldn't have got onto eggs that quickly - I can't even guess where they are.

22 June — Saw 4 ♂ and 1 forlorn ♀ on low marsh on lake side of Holmes' Hydrawik plot. a few half-hearted hoots and chases, but certainly not intensive breeding activity. Later found one ♀ (SN 117 feeding obs. - collected) well into incubation, and a pocket of 3 ♂♂. No sign of aggression within the ♂♂, although one collected has t = 12 x 6 mm. Later collected a t = 10 x 5 mm ♂. I don't think there is much breeding activity going on right now - possibly this cold spell has interfered.

24 June — On Holmes' Marsh saw 3 ♂♂ feeding within 20 m. of each other for nearly 30 minutes with no signs of aggression or any inhibition of interest in breeding.

Maclean
1966

C. melanotos

25 June — Not a bird in Drum area. In aacs marsh saw 2 ♀♀ feeding together. One was bothered by hyper-aggressive ♂ sanderling. Continued together without sign of ♂ for 20 minutes obviously not nesting. In the afternoon saw probably the same 2 ♀♀ 150 m. SE of above spot sleeping in grass. Would like to collect a few of these to see if their gonads are as far down as their behavior.

In the evening went out to do just that without much success. Saw 2 ♂♂ just S. of Voth Creek, one of which even hooted twice, but could not find any more along Gasline Road to Footprint Lake, then in good marsh East of lake, then up lake bed. Discouraging. Back by Voth Creek chased one - probably one of those seen earlier - unsuccessfully

26 June — Drove same route as last night. No birds seen in walking West of Road near Footprint Lake. Finally found a lone ♂ on terrace of lake East of road. He flew out over marsh to East. Followed him and next found him sitting quietly

Maclean
1966

C. melanotos

20 m. from another ♂. Both flew, then for next 15 minutes a ♂ persistently harassed a ♀ over area 400 m. x 250 m.: ♂ chases in flight, gave ground display and approaches whenever ♀ came down. Most active sexual encounter I've seen this year. ♂ gave flight "garble", heard at least once.

27 June — Searched good habitat between micro-met and gasline ridge without seeing a single bird, dammit.

later - only place birds were seen was in Drum area; flying around by road were about 3 birds.

28 June — this evening Niko reports group of 27 birds East of aacs. they could breed, but I fear it is too late.

29 June — area SW of village is not their habitat. Some looks O.K. just beyond village Drum area, and saw 4 ♂♂ chasing here, and 2 displaying ♂♂ just beyond. that was it for broad marshy habitat and pectorals for the rest of the day.

1 July

Maclean
1967

C. melanotos

7 June — Saw 2 ♂♂ feeding with 2-4 bairdii on wet tundra at Nuvuk.

8 June — Newly arrived birds were conspicuous actively feeding and flying, but no display or territorialism yet. Collected several feeding observations and several flew by at W. end of Beach Ridge. Others at Gasline R., and a flock of ca 18 was feeding on the S. end of P's plot. Collected 3 - 1♂, 2♀♀ - from this. This was a good start toward a "Pectoral year".

♂ - t = 15 mm; ♀♀ - ova to 4 and 5 mm - coming up, but a way to go yet. ♀♀ in good condition - heavy fat.

9 June — Another newly arrived flock - 10-12 birds - at W Beach Ridge. Feeding actively in a tight flock, but saw ♂ ground display and aerial display twice. Birds were very cooperative - obviously jabbing along refreezing snow edge. Frozen ground right below the surface - couldn't have probed if they tried. Twice saw birds remove what looked like Tipulid larvae.

10 June — 2 ♀♀ feeding in Micro-Met area as we drove by.

Flock of 6 feeding actively S of FAA in area of flooded low polygons.

Macleans
1967

C. melanotos.

[10 June] No breeding activity or display - low personal distance - With this early arrival the birds are not yet concerned even with spacing themselves out.

12 June — Above the only encouraging species around. Watched a ♂ and ♀ feed in newly exposed flooded low polygon tundra East of Village Ridge. On Village ridge - 4 to 5 ♂♂ were spaced out over area of ca. 250 x 250 m., with a similar # of ♀♀. ♂♂ were frequently seen displaying over ♀♀, but no interaction between ♂♂. Birds were over polygonal tundra recently exposed and now flooded - possibly waiting for more characteristic flat marshes to open up. Noticed that display is more frequently addressed directly to a ♀ than in other sandpipers, which display over an area. Fits well into scheme of polygamy.

13 June — Birds in small pockets distributed over much of the area. Still not much display. Saw a flock of at least 30 ♂♂ w/ associated ♀♀ on the N end of P's plot. Prob. just passing - P' hasn't seen them an hour before.

14 June — A group of 10-12 on "good pectoral country" North of Mine-Met. This area

C. melanotos

[14 June] has just opened up - it will be interesting to see if the birds remain. Some display - several chases including the 'gargle' note and some booming.

In the evening - a similar group 3. ♂ NPS.

18 June Saw a flock of ca. 12 ♂♂ East of Gasline Road between Voth Slough crossing and Footprint Lake. Birds were feeding in wet marsh and pond edge. Collected 2 (SM 720; 721.). Spent most of the day around the polygonized area East of Footprint Lake. There ♂♂ were common - spread out and territorial. Much chasing and frequent display. ♀♀ were scarce - most that I managed to flush were quickly displayed over and/or chased. None of those flushes appeared to be coming off nests. 1 ♀ stood feeding, then a pair of alpina began copulation ca. 40 m. away. ♀ melanotos flew over, landed 1/2 m. away, and watched the entire proceedings. ♀ pectorals, of all birds, should not be hunting for a little sexual stimulation! Collected this ♀ (SM 718): ova to 5 mm and incubation patches just

C. melanotos

[18 June] beginning to form.

17 June — Don and I saw a flock of ca. 20 ♂♂ feeding on wet marsh N. of Micro Met. Another smaller flock was feeding West of those. Went back with the shotgun in the evening but the birds were gone.

21 June — Collected 4 ♂♂ from a flock of ca. 30 scattered about feeding in wet marsh between AACS and Micro-Met.

In the evening a larger flock - >60, but too spread out for a good count - was feeding in Central Marsh. Birds were feeding on islands of saturated ground, rather than in the standing water which covers most of the Marsh. Don collected 1 (SM 730).

A small group was feeding in the flooded marsh N. of Gosline Ridge - mostly along the G.D. WEDGE road.

23 June — Flocks are again conspicuous, but single, scattered ♂♂ are still seen. Saw several lone ♂♂ in the area S and E of Family Creek - Family Lagoon. Still few ♀♀ and no nests.

24 June — Removed 4 ♂♂ from a flock of 40 flying around Beach Ridge East

C. melanotos

[24 June] of Micro-Met. this flock then joined others feeding in Central Marsh.

Mackey
1967

C. melanotos

10-13 July — ♀♀ were abundant at Meade River and several clutches of young were found. This was the most abundant shorebird. Birds were mainly in dried ponds in low-polygon regions. Saw no ♂♂

14 July — About 20 were in a flock with ca. 20 P.d. & C.a. and 2 A.i. near Beach Ridge crossing. Another flock of ca. 40 were in Central Marsh. Chased these toward PCA - Main and collected 6.

15 July — Again - about 40 in Central Marsh in two groups: 10 feeding in wetted road (probing) and 30 pecking on undisturbed tundra. collected 5 of these.

16 July — Tom collected a ♀ only slightly injured in the Central Marsh traplines (VII or VIII). Fed it and put it in a box to ship to Fairbanks.

17 July — Bill measurements of birds collected -

15 July: FAP 67-1: 28.7/5.8/4.9

67-2: 27.8/5.7/4.7

sex? → 67-3: 29.4/5.8/4.6

67-4: 29.0/5.6/4.7

67-5: 27.8/4.8/4.8

Maclean
1767

C. melanotos

14 July : FAP 67-6 : 28.1 / 6.0 / 4.9

67-7 : 25.8 / 5.1 / 4.5

55.5 g. ♂ 67-8 : 27.2 / 5.5 / 4.8

saved for fat extraction.

88.9 g. ♂ 67-9 : 29.7 / 5.7 / 4.8

92.3 g. ♂ 67-10 : 29.2 / 5.7 / 5.0

91.4 g. ♂ 67-11 : 30.7 / 5.6 / 4.7

67-9 - 88.9 g - 1.0 g. stomach contents
t = 4 mm

67-10 92.3 g - 0.7 g. stomach
t = 3 mm

67-11 91.4 g - 0.7 g. stomach
t = 4 mm

67-12 : 27.7 / 5.0 / 4.0

67-13 : 25.6 / - / -

Birds are abundant in the area - especially along edges and out into Central Marsh. Don and I took feeding observations on birds in the marsh. Fewer melanotos in the Beach Ridge crossing flock today - hard to estimate, since flock was dispersed.

18 July A flock of ca. 30 was feeding on the South slope of the Beach Ridge. Even with Tipulids apparently nil, birds are utilizing uplands. Flew into Central

Maclean
1967

C melanotos

18 July] Marsh when disturbed. Other birds were in the Marsh.

20 July — FAP found a young juvenile lost or abandoned near Micro Net and giving distress calls. Collected it. So at least some breeding occurred here this year.

21 July — Don and I found a flock of ca. 12 feeding on an old weasel road near FAP. Later, near Family Lagoon I saw a ♀ that definitely had young nearby. Not enough time to find the young, but no doubt. Maybe (probably) the ♀ of the juv. found yesterday. Otherwise, saw very few. Central Marsh group seems to have departed, leaving numbers way down from recent days.

22 July — One flock of ca. 12 birds in Central Marsh feeding around the weasel road. Otherwise, found none in Holmes' Marshes.

24 July — None in Central Marsh. Numbers are conspicuously down.

25 July — Again - few. Transected over good marsh habitat and saw none. Finally found ca. 6 birds sitting quietly around ponds and troughs of Gustine Pipe.

26 July — A flock of about 30, feeding from the weasel road in Central Marsh near T's Plot. Collected 1 : 811 762,

Maclean
1967

C. melanotos

26 July] 3, 4, 5 — all ad. ♀♀ with light, mod. heavy, heavy fat; molting. Birds were packing.

29 July None in Holmes' Marsh; again about 30 along the g.d. weasel road.

30 July More activity today — a number of birds — maybe 8 to 10 — around Tanglefoot I with alpina, P.d., and 1 dowitcher. Others spread out in the marsh, or on near the road.

2 August Ran into a number of lone ♀♀ or small groups along mesic uplands as around Micro-Met. A good-sized flock — ca. 40 — was loosely organized around corner of Central Marsh. Surface feeding appears to be passé, even though ad. new arrivals may still be seen.

3 August Found a flock of ca. 60 by corner of Central Marsh. Collected 2: ♂ 791, 2. Both ♀ ad.

5 August About 10 birds were feeding around ponds South of Imikpuk with 40 pusillus, 10 alpina. Jabbing. Collected 2: ♂ 901, 2. ad ♀ and the first immature of the year. Immature had lighter legs, unlike the adults.

6-8 August None at Umiat.

9 August None at Shooting Station, N. end of Holmes' Marsh, or corner of Central Marsh.

Maclean
1967

C. melanotos

11 August — Heard 2 birds fly over tanglefoot II, but saw not a one. Day was quiet for all shorebirds.

14 August — Walked carefully through Holmes' Marsh and saw none. The same number in and around Central Marsh on the way in.

15 August — On trip into Shrawik — small groups were common along pond margins and flooded weasel tracks. Mostly in groups of 4-6.

16 August — Again small groups scattered along Voth road — fewer than yesterday, but only went ca. ½ km. South of Family Creek ford. Collected 1 bird feeding on exposed pond bottom near flock of alpina.

17 August — Saw none on trip around the tanglefoots.

18 August — In region of traplines III A-B — scattered birds as individuals & small groups. Collected 1 -

19 August — Birds very frequent and dispersed over the tundra in a long walk from camp to Browerville. Again no large concentrations, but many birds in the area.

20 August — No major changes - went to area So. of FAA. Found dispersed birds and a loose flock of ca. 16. Collected 2 birds from this -

Maclean
1967

C. melanotos

21 August — More of the same in the A.M. by lines III A-B & IV A-B.

In the afternoon - fewer birds in area of P's Plot. walked into Holmes' Morass - then into Central Marsh: prob. 1 bird/acre in these areas. More aerial activity than seen recently - birds flying about over marsh, quite vocal.

22 August — Back along Voth road - birds were thick in small groups, feeding in drying ponds ('black-bottoms' are quite conspicuous now) and around pond edges. Good separation from ad. red-backs, that are now feeding on uplands tundra. Red-backs, at least in the area covered, were quite a bit more common.

23 August

Macleay
1968

Calidris melanotos

19 May — At 7:00 a.m. found a group of 4 ♂♂ and 2 ♀♀ just N. of the Steese Highway, in wet area of mixed grasses and ericaceous tundra. Saw 1 chase - ♂ chases ♀, with garble note. ♂♂ did not look very chesty at this point. Wished I had a shotgun to find out just how chesty!

At ca. 2:00 saw 2 ♂♂ chasing, with garble note, high over a ridge top 1½ mi. SE of Eagle Summit.

23 May — Encountered these twice today. At ca. 8:20 a flock of 4 - apparently all ♂♂ - flew by very rapidly and very erratically - over the top of ridge behind Center Hill, headed generally South. At 10:00 heard a male in full hooting display twice on the SE face of Center hill, fairly low. Good sign - if they are worked up here, maybe they will breed at Barrow. Drove up the highway to Eagle Summit looking, but failed to find any pectorals.

26 May — Saw several - at least 2 and possibly up to 4 - today in Mastodon area flying in a group with bairdi and 1 buff-breast. Saw 1 ♂ give aggressive ground display (low intensity) to another pectoral on the ground.

Maclean
1968

Calidris melanotos

1 June — At Barrow - found 2 birds feeding near some roobacks on the Beach Ridge. Collected 1 - a ♂, about 86 grams.

3 June — Stopped on grassy opening in snow in Voth area and collected a ♂. Waited a few minutes and another ♂ came in. Collected this one too. these were heavier than above bird - good sign. these were the only pectorals seen today.

4 June — Saw a ♂ at the N. end of Pitelka's Plot at 2:30 P.M.

In the evening I drove out to the area of the gas well. there ~~was~~ was a number of ♂♂ pectorals there, scattered about an open area ca. 6 acres in extent. Birds were feeding singly or in small groups. Saw no hooting, but did see an active chase involving 2 birds. the birds looked big and healthy - took 2 and both weighed in the 90's g. I'm optimistic. Have seen no ♀♀ yet, but there may have been some in this flock this evening. there appeared to be about 15 birds.

5 June — Saw the first ♀ - a lone bird in the Voth area, So. of the creek. Collected it - 70.6 g.

Maclean
1968

C. melanotos

June — In the morning a tight flock of about 35 birds - mostly ♂♂ but a few ♀♀ - settled in the drum area by the second closed pole. they sat quietly for several minutes, then began to move out feeding. Saw no interactions between birds - I think this was a flock still moving westward. they left before I could return with a shotgun ca. 5 minutes later.

Next saw several birds feeding on and around Ikroavik plot - even tho this was mostly snow covered.

By the gaswell - 25 to 30 birds feeding actively. Collected a ♂ and a ♀ from this group. Saw no obviously breeding-related behavior. One ♂ looked like he might have been

7 June — Still a large group by the gaswell - very fluid, so it was hard to count, but at least 20. Collected a ♂ and a ♀ ; flock still more ♂♂ than ♀♀.

In the evening - a settled pair in Voth area, where voth creek turns south toward Voth Slough. ♂ displayed over a large area - no neighbors in sight.

10 June — Elson Bluffs, So. of Wohlstay - saw a group of 5 or 6 feeding ♂♂ - took 1 - SM 880. It weighed only 90.5g. Later found a lone ♂

Maclean
1968

C. melanotos

10 June) acting territorial - resting on a small mound, then displaying over a very large area. Collected this, too - #1881. ♂ weighed 94.4g - more, but still very light.

12 June Just across Wohlslag - found a pair - ♂ supervising an actively feeding ♀. Collected both - #1885, 886. ♂ - 100.0g. Later took another ♂ that was settled, but not displaying, and no ♀. this one - #887 - very light - 88.2g. Birds on Elson Bluffs were acting as if dispersing - some chasing about and hooting, but no evident boundaries, and no ♀♀ in sight. this kind of behaviour, however, comes cheap to the pectoral.

13 June Looking still more encouraging. territorial bulls by the No. end of III A and again No. of IV A; others scattered regularly around the area.

15 June the snow turned to slush today. On a slightly raised portion of Central Marsh (i.e - Sct. and S W today) found a loose group of 25 to 30 birds, including ca. 10 ♀♀. Birds were feeding - mainly along the edge of the deeper water, although this was not a true pond and there was no apparent difference in vegetation, etc. of the feeding sites. In fact, the marsh was draining, so the edge of this temporary lake must have been

Maclean
1968

C. melanotos

15 June) moving rapidly. i.e - I don't see how the pond edge aspect of the feeding sites could be of major significance in relation to food density, availability,...

Collected 5 birds from this group - first a ♂ (889) that gave aggressive ground display to another ♂. Next a ♂ and ♀ feeding together, then 2 ♀♀. Both of the ♂♂ were <100g. So if they breed, the fat level threshold hypothesis is in trouble.

took 8500 cores in the area where above group was feeding, including 2 where the birds (890, 891) pointed out the spot. Also took 8 cores from an adjacent low polygon system with similar sat & sw grounds. the result - the birds were where the food was. Many more Pectoicis from the flat.

) June I am by now convinced that the pectoals are playing games again this year - moderate amount of unoriented activity, but very little breeding. the situation is still the same. Birds chasing about and hooting, but unsettled. the final bit of evidence — no ♀♀ around. the sex ratio is strongly skewed.

22 June the pectoral situation exploded today! Were out to do transects. First saw a loose group of ca. 15 feeding, with occasional interaction, by trapline III A. Appeared to be all ♂♂. Collected 3 - SN 903, 904, 905. Next to

Maclean
1968

C. melanotos

(22 June) IV A-B- again some ♂♂ feeding in the sw flats, displaying and chasing occasionally.

Back through the Voth area - saw a ♀ off a nest. Backed up and watched her get back on a nest in tall, dense grass. Flushed her to stake nest, then went to wessel for scale and shotgun. Returned - saw a ♀ off a nest - and watched this one get on to another nest 20 m. from the first! Collected the territorial ♂ watching over the area, both ♀♀, both clutches.

Nest #1 - ♀ SM 900 - 73.2g.

egg #1 - 12.6 g.

2 - 13.2 $\bar{x}$ = 12.775 g

3 - 12.6 Σ = 49.1 g

4 - 12.7

Nest #2 - ♀ SM 901 - 67.6g.

egg #1 - 12.0g

2 - 11.9 Σ = 48.5

3 - 12.5 $\bar{x}$ = 12.125

4 - 12.1

Just as I was stalking the ♂ a flock of pectorals came by. He succeeded in driving them off, but after I collected the ♂ the flock of ca. 25 landed on a polygon ca. 30 m. from the closest of the two nests. the birds stood quietly, quite

Maclean
1968

C. melanotos

Addendum to 22 June -

On 1 September, at the IAB, I processed 2 eggs from nest #2 - these appeared quite fresh. One egg from nest #1, however, has a well-developed embryo with a crown-rump length of ca. 21 mm. Thus, these nests were not synchronous.

Maclean
1968

C. melanotos

22 June) close together, with little interaction. Collected what looked like a ♀ (SM 906), but is probably a first-year ♂ with little throat development.

In the evening drove out to II-X, then I-II on Gasline Ridge. In both places it was the same: many birds feeding on flooded flats (East of IV-X, No. of Gasline) - I could have collected 1-sw feeding observations until my pencil wore down. These birds showed only occasional interaction. Additionally, at each site a smaller number of ♂♂ were off on slightly more elevated land suitable for nesting involved in active chasing and display. These appeared to be setting up territories. In both cases these birds appeared bustier; in no case was a small first year bird involved in this activity. I collected one of these territorially inclined birds near Gasline - SM 907. This is the heaviest bird collected to date - 106.9 g. Also collected 2 birds from flocks for comparison - SM 908, 9[redacted] these were also over 100 g.

23 June the situation is about the same - many birds at the same places - some acting as if territorially inclined. Shot a territorial ♂ that displayed over a ♀ - I think his - by the west end of line X. this bird - SM 910 - was the heaviest taken to date: 107.7g. Also took 2 more from a flock - SM 911, 912: much lighter.

Machea
1968

C. melanotos

(23 June) the evening run of the traps got 2 birds: 913 - a ♀ with a fresh brood patch, and 914 - ~~and~~ alpine.

24 June things have quieted down some - fewer birds in the areas of activity yesterday. The birds by IX and X have moved away from the SW flat, and are feeding on wet flat and low polygon tundra ca. 200 m. west of previous area.

I collected a territorial-actin ♂ below Gasline Ridge. He is light (SN 918 - 97.6g) but has a well developed cervical region. Feels like all of his reserves are tied up in the cervical deposit.

Tom reported a flock of 200 to 300 (that's what he said!) in the Drum area. Wish I had seen it "...with my own eyes".

25 June As yesterday - the big fling is over. Still some displaying and squabbling birds, but more flocking.

26 June do ↑. Saw several fairly large (to 60 birds) flocks - some wheeling about in the air. They are obviously getting ready to depart.

29 June the exodus has begun; some birds in Central Marsh, but definitely fewer in the area. Collected 1 - SN 926. I should have a sample of the pre-departure birds.

Macleay
1968

C. melanotos

30 June — Collected 2 ♂♂ (928, 929) from a flock of ca. 50 birds in Central Marsh.

1 July — Snow fell today, and most of the flocking birds seem to have DEPARTED. Don't blame 'em. Did manage to collect one ♂ (930) from 10 in a flock in Central Marsh. this bird was the heaviest of the year - 107.7g not injected.

2 July — Actually, there are still more flocking birds around than I thought yesterday. Perhaps a 50 % reduction over 2 Days ago.

3 July — Found flocking birds common along the Gaswell Road - feeding not on the flats, but in troughs and at pond edges. took 500 samples where they were and where they weren't. the former had things - esp. Prionocera, the latter didn't. Damn clever, these pectorals. the ♀ (940) has a fresh-looking b.p. and no molt; 4 of the 5 ♂♂ were actively molting.

6 July — Still birds in those same areas along the Gaswell Road.

8 July — a very tight flock of >100 birds in Central Marsh. A random collection of 6 birds (2 shots) produced 5 ♂♂ and 1 ♀. All of the ♂♂ were molting, but not the ♀.

11 July — a flock of ca. 15 dispersed in Holmes' Morass, but more in Central Marsh.

Maclean
1969

Calidris melanotos

9 June — they're here - both males and females! Unlike the other Calidris spp., no display - but they're here. Saw several groups of up to 6, and DWW collected 2 ♂♂: SN 1024 & 1025. Not too heavy: 92 and 86g..

10 June — Saw several small (4-6) flocks on Britton's Area and southward along Gaswell Road. Norton took a ♀ from B's area. I took 2 ♀♀ and 1 ♂ farther south. ♂♂ seem to be showing the first signs of bullyness towards ♀♀, but no hooting or real ground display yet, and flocks are tight. All 3 of the ♀♀ were light: <60g.. the ♂ - 92.6g. - certainly not heavy.

11 June — In the morning saw several small flocks in and around WEF tundra between FAA and trapline III-A. No display. Went back in the afternoon to collect, but found only 1 good ♂ (SN 1036: 92.7g) and 1 presumed first-year ♂ (1037: 71.1g.)

12 June — Several observers saw and heard display today, for the first time.

13 June — On the newly exposed area SO. and east of Voth Crossing - Saw at least 2 displaying ♂♂ and a ♀. One ♂ appeared to have staked a territorial claim and was

C. melanotos

13 June

displaying very actively - to the exclusion of feeding, in the 45 ± minutes that I followed him (and before I slew him). Most of the hooting was done over one spot, where I presume the ♀ was feeding. The flights were over very large areas, circumscribing the entire exposed patch of ca. 8 acres. Particularly along a long tundra-snow contact the bird uses the undulatory, silent territorial flight →.
I finally had to shoot him on the wing - SM 1039 - and he weighed 102.6 g.! Much heavier than the earlier non-displayers. Bill Berry is using him as a model for a detailed drawing.

F.A.P. reports that birds were displaying commonly in west area ca. 5/F.a.a.

14 June

In the morning it was quite foggy, and no display. There were lone birds scattered about feeding. In the afternoon conditions were much better. There are not very many birds in the area - saw ♂♂ displaying several times.

16 June

We seem to have settled down to a familiar Barrow routine: a number of ♂♂ in the area, but no ♀♀. Went out to SW extension of

C. melanotos

16 June) Gasline Ridge to collect. Heard only a couple of bouts of display. Collected 5 ♂♂ and saw more, but no ♀♀. In several cases the ♂♂ seemed settled and flew over to check me out ... to their ruin. Don't know if the ♀♀ that were here earlier are now sitting quietly on eggs, or have moved on.
Of the 11 ♂♂ collected (SM# 1042-1046) the heaviest - 102.9g - was one known to be displaying.

17 June Again - ♂♂ are spaced out quite generally, occupying large territories and chasing other ♂♂ - but there are few ♀♀ and little display. The trapline caught a ♀ this morning.

19 June Little change. The trapline caught a laying ♀. I'm sure that we will find that there has been some breeding, but the ♀ - incubating alone - are quite inconspicuous.

20 June Collected 2 lone ♂♂ today. Both were seen displaying. SM1057, 1058: 96.3 & 97.1g.

23 June there has been a big influx - same date as last year. Many birds, flocking loosely, on Central Marsh and adjacent parts of Beach Ridge. Collected 4 of these - SM 1062-1065. Weights varied from 88.0 g. to a 109.0 g. giant. No display or aggressive

C. melanotos

(23 June) behavior in these, yes.

also took a pair near Micro-Met: SM 1066 & 1067.

24 June A newly arrived flock of ca. 30 - mostly or entirely ♂♂ - near traplines IX & X. they were beginning to display and chase around. I collected 5 of these - SM 1068-1072. One was molting heavily: FAP thinks the conclusion of the pre-nuptial molt, but if so it is beginning anew after a total cessation and that molt occurs in opposite sequence to the post-nuptial molt. Doesn't seem too likely.

25 June Found 2 complete nests today - collected both of them. In the morning I flushes a ♀ from a nest - and into the middle of a flock of ca. 30 ♂♂. She was immediately chased by at least 10 of them. Didn't see her get back on. Returned to this nest at 4:45 - the eggs were slightly warm, but in 45 minutes we never saw the ♀. Went out at 7:30 - she was incubating and I collected her (SM) and the 4 eggs (12.2, 12.1, 12.0, 11.1 grams).

In the afternoon Dave Hawes and I flushes a ♀ from a nest on Southern of FAP's plot - ca. 10 m. NW of stake 1.8 of trapline VI. Again - flushed her into the clutches of a flock of males, and she was

C. melanotos

(25 June) chased by at least 7 ♂♂. After ca. 1 minute 3 birds came in and dropped out of sight in the trough where the nest was located. the ♀ went immediately to the nest, and we only saw 2 ♂♂. the ♀ may have been helped by 1 ♂ who acted like her mate. Collected the ♀ (SM) and the 4 eggs - weighs: 8.8, 9.4, 9.7, and 8.0 g. - obviously well along.

26 June A third nest - east of AACS - found by Hawes in the morning. We went out and harvested it in the afternoon. the first time we approached the ♀ left and flew ca. 150 m. away. From there she was chased by a ♂ even farther. We returned in 15 minutes, and this time she only went about 40 m. that was her mistake: SM the eggs were real whoppers: 14.7, 14.1, 14.7, and 14.9 grams!

Many ♂♂ still around AACS meadows and Beach Ridge, but not much display activity.

In the evening we watched a ♀ closely attended and displayed over by a ♂ near Micro-Met. she fed continually for the 20 minutes we watched. My guess is an incomplete clutch.

27 June On footprint lake - many birds - mostly ♂♂.

C. melanotos

29 June — There is a large flock of ♂♂ in Central Marsh and adjacent parts of Beach Ridge. Display activity has essentially ceased.

1 July — Collected 3 ♂♂ from the above flock - now largely on Beach Ridge. Adult insect flight is just beginning it will be interesting to see if their stomachs contain adults - especially tipulidae, which were not evident to us in this area today. The birds - SN 10 , 10 , 10 - have greatly reduced cervical fat, and 2 of the 3 have begun to molt. The breeding season is declared finis.

In the evening Dave looked for the above flock and found it gone.

2 July — All ♂ pectorals have left the area. Found none in Central Marsh, Beach Ridge, or along the Gaswell Road as far as the north end of Footprint Lake.

3 July — Went all the way down the Gaswell Road, and finally found 1 bird just North of Footprint Lake, and a flock of ca. 10 + scattered individuals on Footprint itself. Certainly not very many for this time and place. The ♂♂ that I collected were heavier than those of 1 July - but these represent a special sub-sample:

C. melanotos

3 July) those that did not join the general exodus of the past few days.

4 July Saw a group of 3 ♀♀ along the Central Marsh road, but no ♂♂. Of course - didn't have the damn gun.

6 July Saw a lone ♂ by the NE corner of Central Marsh, and collected him - SM 10. Quite heavy - 105.6 g. - and moulting, as are most birds now.

7 July There are a few ♂♂ in Central Marsh again.

Erolia alpina
is now
Calidris alpina
per AOU 1998

Maclean
1964

Erolia alpina

10 June — Nest with 4 eggs (RB-1 - RTH) located on So. Beach Ridge. Found 6 June with 1 egg by Holmes.

11 June — None seen in Drum area.

15 June — Widely spaced, but consistently found along beach ridge and W. slope. 1 pr. on gasline ridge. ♂♂ still displaying well.

18 June — Dense on N. slope of ridge W. of gasline. Continue on ridge slopes for several miles. Still much activity; ♂♂ displaying, chasing.

20 June — Well spaced in mesic areas E. of Beach ridge. ♂♂ displaying.

25 June — Seem universally distributed inland - more display than other spp, with possible exception of Buff-Breasts.

3 July — Nest found in process of hatching - flat grass area N of Jaeger nest, between gasline and Missle Salt Lagoon. 1 just out, one coming out, 2 broken. 1 adult nearby.

Miller reports 4 chicks with 1 adult in Vath area.

4 July — Rechecked above nest - cup empty - 1 chick ca 10 ft. away - no other chicks or adults in sight. This chick assumed abandoned and collected (Maclean 259).

17 July — 2 adults w/ 4 chicks - W side of gasline ridge.

31 July — Flock of 17 adults feeding in muck

Macka
1964

C. ~~pusilla~~ alpina

along bank of Valley Slough. Flock of ca. 20 feeding in dixies up ponds of Holmes' Marsh. May have been same birds.

These are now the most evident, if not most numerous, shorebird on the tundra. Numerous small flocks and individuals seen in addition to above larger flocks.

1 August Flock of ca. 30 ~~C. alpina~~ East of gasline ridge. Feeding mostly in dixies up ponds in polygonal area.

1 August Brood of at least 3 chicks, 2-3 days out of egg, running on top of snow near RNCS.

3 August Numerous flocks of 7 to ca. 150 encountered on trip inland. Almost always feeding along edges of dry or drying ponds.

ackeen
1964

C. alpina

15 June

1 ♂	Holmes' Plot - W-slope of Beach ridge	9:00 P.M.	Disturbed ground in meadow trail	stood, tail displayed
2 pr.	W slope of Beach Ridge	9:10	wet-mesic slope-meadow	♀ sitting. ♂ peck once, flew.
3.	Beach ridge, rear micro-met	5:35 P.M.	Ridge top	jab ca. 10 times
4 ♂	"	5:46	"	jab ca. 7 times; display

Maclean
1964

C. alpina

17 June

1	SW of micro-met	10:37 A.M.	wet - mesic marsh	jab 75 - peck 25
2.	Beach ridge between micro met bldgs.	11:27	disturbed dune edge	peck (2), jab. (1)
3. 07	N. micro met bldg.	11:30	snow bank	caller. Flew + sings
4	"	"	mesic grass by vessel track	jabbing.
5	N slope of Beach ridge	3:58	mesic marsh	60% jab - 20 peck, 20 prepe. peck on a river mounds.
6	"	"	marsh road	jab - single = series of 5.
7	Beach ridge	4:50	mesic ridge top	jab
8	Dune in Beach ridge	5:28	wet - mesic S. ridge slope	65% peck; 35% jab

Mackea
1964

C. alpina - feeding observations

22 June 034 ♂

4P	1	4AB	3	2	1¼"

with ♀ 035

035 ♀

4P	1	4AB	3	2	2"
	1	5AB	3	3	2"

peck/jab

036

5P	1	6A	3	4	3"

~~23 June~~ ~~045~~ shallow jabs

23 June 045 ♂

9A	1	5A	2	5	5"

shallow jab : 1 - 3. moves rate
moves 50 yds.

056 (♂)

10A	1	5A	3	3	¾"

shallow jab. moves 4 yds

	1	6A	3	4	3"
	"		15 yds		

073 ♂

3P	1	5A	3	4	1½"

occasional sx. of jabs. 40 yds

085

5P	1	6A	3	4	4"

jab : 1 - 7.
with 086, 2 f, flock of ca. 15 m.

086

5P	1	6A	3	4	5"

Macka
1964

C alpina - pecking

24 June 092 (♂)

4P 2 5A 2 5 1/2"

3 5A 3 4 1"

shallow jabs

094

4P 2 4A 3 5 1/4"

095

4P 2 5A 2 5 4 1/4"

shallow jab. chase

2 5A 2 5 1/2"

chase

2 5A 3 4 5"

shallow jab - 1 - 5

098

5P 3 4A 2 5 1/2"

3 5A 3 5 1/4"

chase by ♂ m.

099

5P 1 4A 3 5 1/2"

100

5P 1 4A 3 5 1 1/2"

26 June 102 (♂)

9P 1 5A 3 5 2 1/2

27 June 108 ♂

3P 2 4A 2 5 1"

28 June 119 ♂

2P 1 5A 3 5 1 1/2"

peck

Mackeson
1964

Courting - pairing

28 June

125 ♂↗

3P 3 6A 2 5 1"

shal. jab.

1 5A 3 4 1/4"

126

3P 5 6A 4 2 3"

~~Froke~~

132

4P 1 5A 2 5 3/4"

139

9P 1 6A 3 4 4"

141 ♂↗ (w/ ♀ 148)

9P 2 5A 3 4 1 1/2"

142 ♀ (w/ ♂↗ 141)

9P 2 5A 3 4 1/2"

29 June

1AA ♂↗

9A 1 6A 3 5 3/4"

153 ♂↗

10A 1 5A 3 5 1 1/4"

154 ♂↗

10A 1 6A 3 5 4 1/2"

1 July

172

1P 2 6A 3 4 1 1/2

2 July

179 (♀)

10A 1 5A 3 4 3"

peck

Maclean
1964

C. alpina

2 July 183 ♂

11A	1	6A	3	4	1/2"

peck

3 July 192 (♀)

3P	1	5A	3	4	1 3/4"

peck

193

3P	2	5A	3	5	5"

peck

194

3P	2	5A	3	5	3 1/4"

peck

203

3P	2	5A	3	4	5"

peck

4 July 205

4P	2	3A	3	5	2"
		4A	4	4	3"

peck

6 July 214

11A	1	5A	2	5	1/2"

peck

218

11A	1	4A	3	5	1/2"

220

11A	1	5A	3	5	1/2"

221

2P	2	4A	2	4	1/2"

peck

Mecba
1964

C. alpina

6 July 225

3P 1 4A 3 5 4 1/2"

peck

6 2A 1 3 1 1/2"

Probe

226

3P 1 4A 2 5 5"

pecker

230

4P 1 5A 3 5 5"

peck

8 July 233

10P 1 4A 3 5 5"

10 July 253

4P 1 5A 4 5 5"

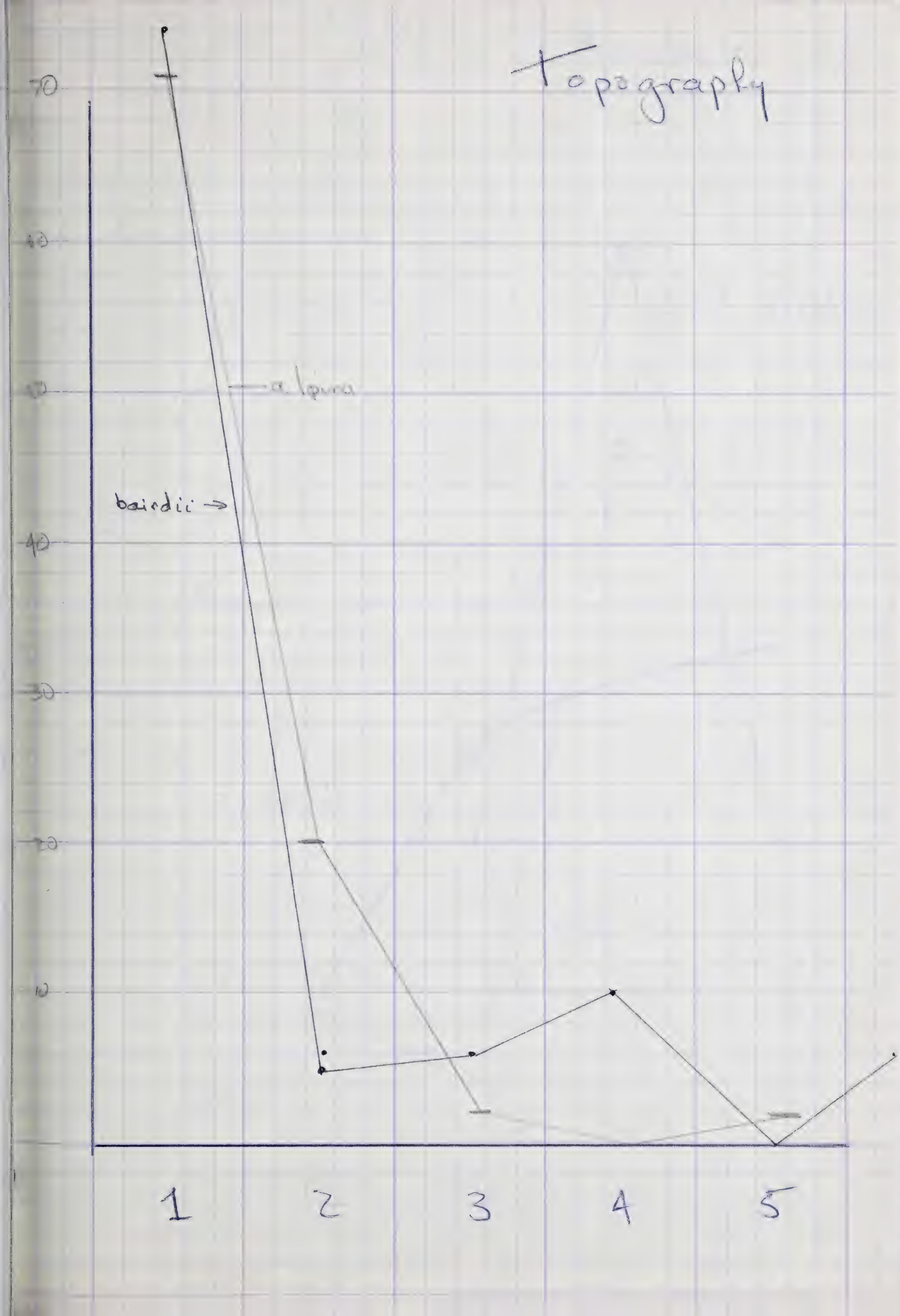
14 July 273

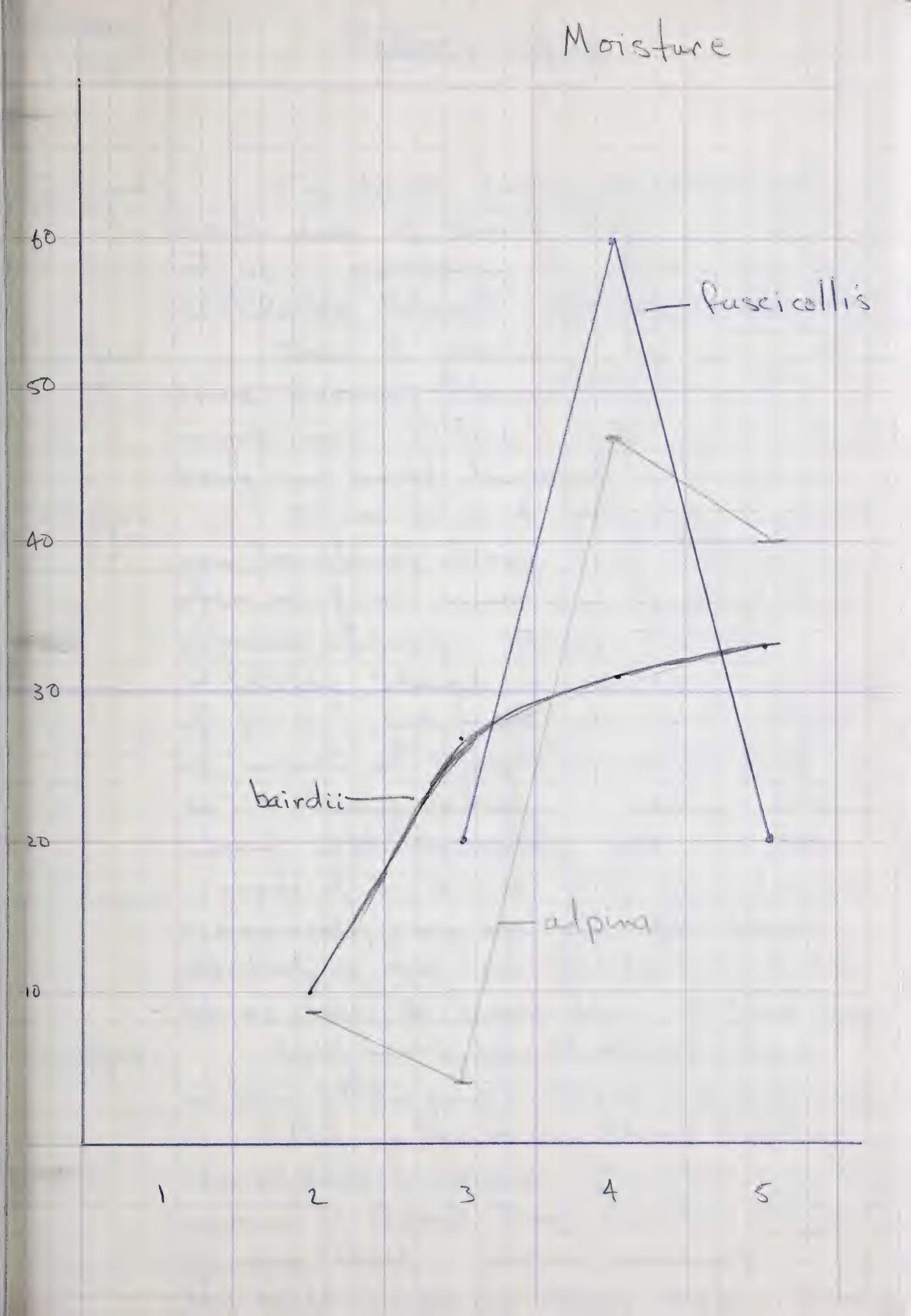
4P 1 6A 3 4 1 3/4"

Alpina - (26)	Top	Veg	Height	Moist
1	20 / 47			
2	8 / 13½		8 / 13½	3/6
3	4 / 3		24 / 50	2/3
4	1	4/4	1/3	11 / 31
5	1 / 3	17 / 27		17 / 26½
0		12 / 35½		

Spina (20)	Top	Veg	Height	Moist
1	71%			
2	20%		20%	9%
3	4%		75%	40%
4		6%	5%	47%
5	4%	41%		40%
6		53%		

Topography




Moisture
60
50
40
30
20
10
fusicellis
bairdii
alpina
1
2
3
4
5

Maclean
1965

Calidris alpina

10 June — Two birds feeding together near South end of Beach Ridge. Groups of 5, 2 proceeding E. along edge of Wohlsbog Slough, all feeding actively.

11 June — Saw 2 feeding in low polygonal area around Stevens' Plots, W. of micro-met. Others in area. Heard first song in brief bursts of ca. 3 sec..

12 June — Encounters 4 seemingly dispersed and territorial birds S. of CRREL wanigan- observes first raised wing displays and grounds chasing. Moving E. along Wohlsbog Slough, encounters two groups of 5-9 - eventually joines with others at mouth of Slough to ⇒ flock of 25. Feeding actively. Feeding motion: moving with "exploratory" jabs into litter in series of 3-8 ; ca. 10-12 series / 30 sec. Occasionally stop and jab (often deeper) attentively at one spot for up to 1 1/4 min. Series seem to break down at these times.

13 June — Easily outnumber all other shorebirds combined at this point. Birds are dispersing and setting up territories. Aerial displays and chases frequent. Occurres irregularly around W. Beach Ridge and low polygonal ground West. Several seemingly territorial birds on Gosline Ridge. Flock

Maclean
1965

Calidris alpina

(13 June) of 8-10 around Upper Wohlslag Slough showing some display and chasing. One chases w/ 2 others, then gave good aerial display, continues on ground, then aerial again.

14 June again, both seemingly territorial birds plus flock of ca. 12 along N. bank of Wohlslag Slough. Saw both aerial and ground display in territorial and flocking birds. Display better developed in territorial birds. Fair to good feeding observations - could have taken more.

15 June Persistent beasts! Miserable weather - snow covering previously melted areas, but they've still trying. Very little aerial display seen, but birds still on territories around Gaslie Ridge.

16 June Flock of ca. 40 ± 4 in exposed pocket S. of Brant Point. Occasional brief "whinny", but no real display. took feeding observations.

19 June to Voth area in greatly improved weather. Heard more display, but still far below normal. Saw two birds feeding in pond and observed. [Ahaa - a pair!] Joined by another!? all three collected [see obs # 096 + 097. 3rd bird not observed, but considered as

Maclean
1965

C. alpina

(Feeding in same pond habitat.)

21 June — Either two or three territorial pairs in AACS — micro-met marshes. Birds are still seen together - probably not incubating.

22 June — Both territorial and non-territorial birds in Holmes' Marsh. Several territorial birds seen alone - may be incubating. Not much courtship activity.

23 June — Birds just plain hard to find in Voth area, and not doing much of interest. Territorial birds seen both singly and in pairs.

25 June — Birds are still courting - moderate amount of display seen and heard, with several courtship chases. Also still territorial disputes.

27 June — Display is about over - quieting down rapidly even tho' weather is good.

28 June — 2 egg nest located near Stevens' plot N of Micro-Met. two eggs very different in appearance: 1 "normal", other elongate with all spotting concentrated at broader end. Ground color of egg mainly blue-green. Nest cup seemed unusually small, deep.

29 June — Pair localized on N. slope of Beach ridge. ♂ gave brief ~~stage~~ display.

Maclean
1985

C. alpina

Probably nearing completion of clutch.

1 July — Micro - Her nest now has 4 eggs - 3 "normal" plus the odd one.

3 July — Again checked red-back pair on N. slope of ridge. Appeared to be incubating, but could not find nest.

4 July — Nest w/ 4 eggs ca. 125 m. W + S of C+GS shack.

5 July — Pair near CREEL wanigan with a nest waiting to be found.

9 July — New nest - 3 eggs - NW of trapline IV-B. (#9).

11 July — Most frequently encountered territorial shorebird around Ekrowik. (pectorals seen off territories.) Not doing much exciting. Collected one ♀ - (# 428) - good brood patch, largest foll. 2 mm.. Same spot collected ♀ pectoral still laying.

12 July — Found new nest at cake-eater with 3 chicks (1 still wet) plus one pipped egg. First hatching. Hamilton checked Voth nest and found it too hatching. Last year hatching nests found on 3 July

13 July — Collected ♂ at upper Voth Area - apparently incubating. t = 6 x 4 mm, b.p. present.

Maclean
1965

C. alpina - nests

nest #			
1.	26 June	Pitelka's Plot	4 eggs
	2 July		empty - failure
2.	27 June	Voth Area	4 eggs
3.	28 June	Micromer Marsh	3 eggs
4.	29 June	Britton's Area	4 eggs
5.	5 July	Britton's Area	4 eggs.
6.	4 July	Area of IV-B	4 eggs

Maclean
1965

C. alpina — nests.

7	28 June	Micro-Met Bldg.	2 eggs	- 1 "odd"
	1 July		4 eggs	- 1 "odd", 30k.
8.	4 July	w. of C+G.S.	4 eggs.	
9.	8 July	NW. of IV-B	3 eggs.	

Machesa
1966

Calidris alpina

2 June — Heard display beyond dump, on road into town.

3 June — Two very active displaying ♂♂ over beach ridge, plus feeding group of 3 (looked like 2 ♀♀ + 1 ♂).

4 June — Two pairs appear to be localized on Beach Ridge. Some display, but no territorial interaction. Another ♂ closer to C + G.S. feeding — flew 1/4 mile toward dacs when flushed.

Pitelka's plot — 2 prs. have made this their home. Sitting quietly — no display. Took a ♂ off NE corner of plot (SM 482) — t = 11 x 6 mm — fat, juicy *Tipula* larva in esophagus.

6 June — Foggy, foggy dew. Heard several ♂♂ displaying over Beach Ridge. Couldn't see much, due to fog. Pitelka's plot — again 2 prs. — sitting quietly. In Vath area a flock of about 10 birds was apparently dispersing. Very active, but no full display. Birds chasing, segregating, and regrouping — many trills and much wing flagging. Too much going on to keep track of individuals.

In the evening watched a pair on Beach Ridge, then went to W. ridge and shot a ♂ (SM 486). Thin

Maclean
1966

C. alpina

bird was hunting actively, but nothing fresh in stomach.

7 June — Much "early" type activity of dispersing birds in Voth Area. About 30 birds on 10 acres of exposed ground along West side of Honeybucker Lagoon. Broke into smaller units, but regrouped twice in ca. 20 minutes of observation. Much activity - short chases, trills, aggression - but no full display, and no evidence of pairing. Farther down road - similarly behaving groups of 15 by Cakeeater, 20 across road on Voth side.

By evening, 60 birds were concentrated into a cohesive group in Cake-eater area. Probably largest Spring flock ever seen. Flying very actively and rising quite high. No sign of breeding activity.

8 June — Pair in Drum area probably just transient. ♂ displayed once, but without well developed early phase of song. Two pairs appeared stable (and quiet) on Beach Ridge. Another pair where road crosses ridge to Central Marsh probably not localized.

Evening - tight group of 13 in

Maclean
1966

C. alpina

Britton's Area - flying actively, but doing nothing productive. West shore of Family Lagoon - just 1 quiet pair. Cake eater - 1 ♂ trying to raise some trouble, but nobody else seemed interested. this ♂ chases away another ♂, then gave ground display and chases a ♀. Total of about 6 birds in Cake eater area.

9 June — Very little activity in Voth Area.

Maclean
1966

C. alpina

20 June — In pondy, low polygonal ground West of Cake Easter, saw flock of 6 birds, both ♂♂ + ♀♀, on the ground feeding. Early for this. Too much was going on at that moment for me to get an accurate count of sexes. Birds, when flushed, flew ca. 100 m. as a ± coherent group, then resumed feeding. Heard a few displays, but display activity has obviously fallen off.

22 June — In walking entire length of Holmes' Hydrawik plot - scared up no more than 5 birds. We have reached the quiet time of the year for this species, however. there were probably more there. My impression from the entire inland trip was that they are scarcer than in past seasons. We only found 1 nest - that by watching; didn't turn up a single one in driving. Will have to return in better weather to check these observations.

Nest found on low marsh between lake and Holmes' plot - ♂ incubating. Egg wts 11.9, 10.1, 11.7, 11.1 grams. 17 - 20 mm embryos; probably > 10 days along (saved embryos).

Macken
1966

C. alpina

26 June — Nothing of note - I just feel obliged to comment. Birds are mostly encountered singly, scattered - obviously incubating. Well into primary molt. Feeding observations are coming much harder now.

27 June — a ♂ West of Micro-Met was worked up over something - displayed several times, although never at full intensity. May have been wandering bird - was chased once by another alpina.

29 June — On "upland" tundra SW of the village this was the most common shorebird. Tundra consists of rolling dry, well-drained, areas with grassy swales periodically. Each swale supported one (or exceptionally two) pair of red-backs. Found 2 nests - 4 eggs each. Display was over - only an occasional trill.

3 July — 2 birds were flying with the Holmes' Marass pectorals. Separated themselves in flight, but always took off and landed with the flock.

5 July — Nests are beginning to pop open. Niko found two, and Llewellyn reports one.

6 July — With B-ina kessel - couldn't raise

Maclean
1966

C. alpina

a bird around nicro-mer, but found
2 - probably a pair - around ades.

Calidris alpina - nests

#1 - 4 eggs - Pitelka's Plot, East side, stake

#2 - 4 eggs - South of Pitelka's Plot

#3 - 13 June - 4 eggs - East side of Village lagoon, on "hedo" of land into lagoon.

#4. 15 June - 4 eggs - Village Ridge, East of CRREL well.

#5 13 June - 4 eggs - East slope of Village ridge, on road toward CRREL well.

#6 17 June - - 4 eggs - N. of traplines II + V, West of gasline

#7 17 June - 4 eggs - Stevens live plot, near Family Lagoon.

#8 16 June - 4 eggs - 40m. West of Road, South of Britton's Area.

#9 20 June - 4 eggs - Stake 0.8, trapline I.

#10 16 June 4 eggs - Pitelka's Plot, center, near stake 10.

#11 27 June 12:05 4 eggs. AACS shack. near power line

#12 [illegible]

#13 [illegible]

#14 16 June 11:00 - 20 yds N Ai Nest 1 4 eggs -DLB

C. alpina - check

21 June #7. all eggs present 21.30 N.I

25 June #8 all from eggs 22:00 N.V.

27 June #7 all eggs gone. one piece of egg shell. N.I

3 July #1 3 eggs, 2 yg. - nest N.I

~~#X 3 yg. 25 m out of nest, nest with one unhatched egg 17:..~~

#2 4 eggs - 2200 SM

#10 3 yg. 10 m out of nest, nest with one unhatched egg 1..

4 July #6, 11, 12 all eggs present N.I

5 July #6 - 3 dry yg, 1 egg. 21:30 N.I

#11, 12 all eggs present N.V.

6 July #8 3 dry yg, 1 egg - nest at 17:00

7 July #6 - nest empty 16 m N.I.

#11 all eggs - nest N.I

#12 nest empty - both parents present, excited - N.I.

11 July #11 Nest empty, 10 yg fledged N.I.

Macleod
1967

C. alpina

5 June — Birds are frequent in bare areas on Beach and Gasline Ridges. Many are clearly pairs; others in very active post-arrival groups. Saw 1 nest-cup display, repeated, and saw several other cups in tundra. Collected some feeding observations. Only 1 ♂ gave full aerial display.

7 June — None at Nuuk.

8 June — Numbers and activity was/were not at all impressive. Widely spaced and paired — occasional display — but nothing particularly worthy of note.

9 June — Scarce and conspicuously paired along W. arm of Beach Ridge. Activity was quite low in the morning.

two pairs seen in the Drum area in the afternoon.

10 June — Where are you all? Visited gasline area near Micro Met — heard 1 lousy bird, then P shot a pair as I was walking W. of there. their absence is notable.

Sparce, again, in Voth area. 1 displaying ♂ in Britta's Area; more seen S. of FAA, but not much activity.

11 June — Widely spaced and only occasional display along Brouitville Ridge. the

C. alpina

[11 June] population is simply not dense enough to generate much display.

12 June Visited the Vette - Village Ridge region - but recently exposed. Very poor! Found a 1 egg alpina nest - peculiar - I saw a bird there looked as if it might be off a nest - followed it onto the nest. When flushed it gave a trill - i.e. the ♂ - but only 1 egg in the nest. It is curious that the ♂ was so attentive to a 1 egg nest. Didn't see the ♀. A bird probably the ♂, later displayed very well, but otherwise birds were widely spaced and displaying v. little.

Pitelka collected 2 (separately) near lakeedger.

13 June Pitelka found a 3-egg nest on his plot. Most birds seem to be incubating now. Display is still heard, but sparsely.

18 June Very calm now - birds quietly incubating. Nesting density is low - few nests are popping up by flushing of incubating birds.

21 June Nest near trapline I on Gasline Ridge is empty. About 50 m. from the empty cup 2 ♂♂ engaged in aggressive dispute on the ground, involving 'battering ram' behavior. Probably ♂ from the empty nest and an adjacent ♂.

Maclean
1767

C. alpina

3.

[21 June]

♂ from tuplin II leg = 10 mm ens
pos functional brood patch.

Macleay
1967

C. alpina

10-13 July — At Meade River - birds frequently encountered, but no young seen. As last year, they occupied mesic areas, especially tussock-tundra. Since these areas are not good for walking, alpina may be more dense than it appeared.

14 July — A flock on Beach Ridge near the road crossing included about 8 alpina as well as P.d., C.m., and A.i.. Later found 4 sitting in low polygon tundra NE of USC E.G.S. site. Collected 1. So flocking is definitely well underway.

15 July — Found 2 adults with 4 young juvenile along the East side of Central Marsh on an elevated area. They were in the same place about 40 minutes later - prob. feeding on ad. tipulids which were abundant there.

In the evening a mixed flock was again at Beach Ridge crossing - this time with about 16 alpina. Another group of 8 was feeding along dry ground in East Central Marsh - pecking. Collected feeding observations on both groups.

16 July — a flock on P's Plot - spread out, and feeding. At least 18 birds - probably more spilling onto Holmes' Marsh.

Macleay
1967

C. alpina

17 July — Flock between OACS and Beach Ridge crossing seems to be picking up alpina - now ca. 30 w/ P.d., m., a.i. Couldn't get close enough to collect any.

18 July — A flock of ca. 40 birds was feeding in the Micro-Met area. Tom collected 6:

FAP C.a. 67-4 : 34.4/5.0/4.3
5 : 32.0/5.6/3.9
6 : 34.5/5.6/4.0

and 3 M#, , , .

In the morning, Tom collected one bird feeding in Central Marsh:

FAP C.a. 67-1 : 30.2/5.8/4.8.

and one bird near Beach Ridge Crossing:

FAP C.a. 67-3 : 35.0/5.8/—.

21 July — Several small flocks - from pairs to 16 birds - as we did transects around family creek.

22 July — 2 birds have been captured in snap traps. Sent these off to Fairbanks. Again - several flocks of 6 to 16 birds feeding on surface insects and jabbing at pond edges in Holmes' Marsh.

23 July — A pair with young in wet, ponded marsh No. of Gasline Ridge.

24 July — A pair with large juveniles in No. part of Central Marsh - drier than most places,

Mackean
1967

C. alpina

24 July] with good grass cover.

26 July Flocking birds are abundant on Beach Ridge along P's Plot and in Holmes' Marsh.

29 July Flocks↑ were not seen in the same area in colder, windier, weather. One adult with a flying immature; the white wing flash on the immature is very prominent - at first we tried to call it a sanderling.

30 July Warmer weather again, and a large number of birds around Tanglefoot I. Must have been 20 or so alpina with melanotos, bairdii, and a dowitcher. Feeding was mainly pond edge and wet tundra. Some birds are also getting down to feed on the weasel road by the corner of Central Marsh with melanotos and pusillus. Above 10 there today. 6 there on the ridge, along P's plot.

31 July Saw an adult feeding along gravel spit heading toward Nunik.

2 August Warm weather, & but found few birds. None at Nicre - Net or along beach ridge. Finally found ca. 10 ad. and immature feeding on disturbed wet ground at corner of Central Marsh.

Hacker
1967

C. alpina

(August) they are also appearing at the ponds at Shooting Station - both adult and immature. ca. 10 there.

3 August An active flock of about 30 at shooting station tonight. Very tight flock formation - if they were peetards I would say they were about to fedire.

5 August About 10 birds w/ 10 melanotos and ca. 40-50 pusillus near the reefer row, on the East side of the road. Birds were jabbing at pond edge and pond w/ no veg. cover. Collected 2 - SM 799, 800.

At tanglefoot I found another flock of ca. 18 feeding in low polygon - polygon trough, then moved to pond edge. Collected 2 - SM 803, 804.

All birds collected today still show light fat. Now molting very heavily.

8 August Saw none at Umiat.

9 August A flock of >100 alpina was feeding around coastal ponds at shooting station. Main part of flock - nearly all adults contrary to Holmes - flew very tightly, but smaller groups fed loosely around pond margins and, somewhat, on low grass around ponds. Collected 3 - SM 806, 7, 8.

Macleay
1967

C. alpina

11 August — About 30 birds with 40 pusilla by ponds by reefer row - Drum area. Collected 1 - SU 809. These were about the only birds in the area. Heard 2 fly over tanglefoot II, but saw none in Central Marsh or over Beach Ridge.

12 August — Scattered groups of birds on Birkwick feeding with pusilla and turnstones. Collected 1 - SU # 813 - still tanglefoot. Probably was a total of 20 birds in the area - not many - no sign of the large, compact flock there a few days ago.

14 August — Walked carefully over Holmes Marsh from U.S.C.&G.S. to Wethelay Slough. Saw only 1 immature bird in the Marsh itself - standing by a pond edge. Finally found a flock of 45 - almost all adults - feeding actively in the ponds at the mouth of Llewellyn's Weir, along Wethelay Slough. 7 or 8 were probably immature birds. On tundra to the NE, another 10 & so birds, feeding less actively. Went back to wetsuit for the shotgun. When I returned many birds had moved onto tundra, but were not feeding. 18 remained in the disturbed pond - collected 1 : SU 815. Then went up to the tundra and took 2 birds

Maclean
1967

C. alpina

14 August] (SM 816, 817) ~~[illegible]~~ feeding around a pond, and 2 more (818, 819) from a flock standing about, not feeding.

15 August — Drove inland to Skrowik, largely to see numbers and separation of adult and immature red-backs. Saw scattered birds all the way - mainly feeding around ponds and the damn weasel road, then a flock of 20 adults on low polygon tundra South of S. Footprint lake. Saw no birds on Holmes Skrowik plot.

16 August — Sc. of Family Creek - a flock of ca. 30 that appeared to have a few immatures. Collected 1 - SM 822 - a ♂ w/ light fat.

18 August — A flock of ca. 35 birds flying about actively near traplines III A-B. Collected 2 - SM 825, 6. ♀ has moderate fat, ♂ still light. Birds were feeding largely in uplands areas.

19 August — On walk from camp to Brownsville saw many birds. First a flock of 15 immature (only) - supporting somewhat Holmes' comments re. separation - in pond by family creek. Other imm. were encountered alone or with small groups of imm. and adults all along the way. Also saw several

Maclean
1967

C. alpina

19 August] flocks of adults. Much upland feeding. It now appears that the birds move to pond edges until the tipula developing from this years eggs are large enough to represent useable food. The flock of immatures and most of the lone imm. were in pans or flooded polygon troughs. Their bills may still be too soft for jabbing in hard ground.

A trapline 4 has moderate fat-deposition appears to be underway.

20 August — Still many birds in FAA - So. Sdt lagoon area. Birds were dispersed in small groups of up to 10, plus one flock of ca. 25. Collected an immature from a flooded trough - 811 832 (Feeding obs. 330).

21 August — About the same - many birds in the area. In the morning birds were dispersed in areas of traplines III & IV. In the afternoon encountered a flock of ca. 30, both adults and immatures, in depression in Beach Ridge near C.E.G.S. Others dispersed in ~~Cer~~ Holmes' Marsh. It seems that birds have been piling up with the good weather. The onset of cold weather may bring a mass exodus of these and other spp.

22 August — Birds were thick in region of traplines III A-B. Adults were definitely

Macleay
1967

C. alpina

22 August] feeding on upland tundra, immatures by ponds. Collected 3 ad. ♂♂ - SU 840, 41, 42. All has moderate fat - SO deposition is underway. Still molting heavily. Adult insects were common a the warm tundra today! These adults may have been exploiting these. In the areas covered red-backs were the most common birds, followed by Dowitchers.

Macken
1968

Calidris alpina

1 June — A large group of newly arrived redbacks must have hit the Beach Ridge just before I did. Many birds along the stretch of exposed tundra. Frequent descending trills, but no well developed display yet, and birds still associated in small groups. Collected 3 birds.

2 June — Not much exposed ground on the Brownville Ridge system. Saw a number of newly arrived birds - one group of 3 very actively chasing and burning calories at an impressive rate over ca. 1/2 km. of patchy exposure. The chase went on at least 15 minutes.

3 June — Made a trip through the area - about normal early activity. 1 worked up ♂ flew to gasline ridge from polygons to North- proceeded into nest cup display in front of us, although no ♀ was in sight. gave rattle-rattle note of worked up bird. On Village Ridge a number of birds were trying to get boundaries settled - much chasing and display. Took 3 birds - probably 2♀♀ and a ♂.

4 June — Happened onto a burst of activity at the No. end of P's Plot - again, it looked like a group of newly arrived birds beginning

Machea
1968

C. alpina

(4 June) to disperse. there were more birds than the area will support. On the other arm of the ridge things looked more stable: birds well spaced out and less activity. Did see a group of 3 - looked like 1 ♂ with 2 ♀♀. ♂ was closely associated with 1 of the ♀♀. Left her to make an aggressive approach toward the other ♀. She did not respond, so he gave up and went back to feeding.

In the evening went to exposed area of Footprint lake near the gaswell buildings. there found a very active flock of 25-30 birds - newly arrived. Birds were chasing about, but little vocalization or evidence of pairing.

5 June looked at stomachs of alpine killed by Pitelka yesterday: 2♀♀ had Lemmus bones and teeth in stomach; none in ♂ !!

6 June Drove to Ikroavik. Just as we approached the plot saw 2♂♂ in a territorial encounter on the snow, ca. 12 m. from nearest exposed patch. Most of the plot is snow covered, so they don't have much to fight over. We put the wanigan on the one large exposed area. There seems to be a pair associated with this area, other birds -

Maclean
1968

C. alpina

6 June) I think not paired - wherever ground comes through the snow. In all - there are many birds in the area considering the extent of snow cover. Again lots of active birds by the gaswell - 1 less after we passed through. There may be a few territorial pairs around the periphery of this area.

In the evening drove out to Micmac area, but didn't see or hear much. Saw a nest scrape - Soikkeli asked, smugly - if birds remain on territories, where are they? But we didn't search the area to find out - too damn cold.

7 June Again - lots of birds on the open spaces. Found the first nest of the year - a 1 egg nest near the No. end of line IV A-B. At 8:45 P.M. saw the bird come off; at 9:20 went back and found the nest with a warm egg - may have been quite fresh. the area was ~~&~~ riddled with nest-cups - probably 8 of them on the exposed patch 10 x 20m. the nest was at the highest point of the patch.

Saw several flocks of red-backs - a flock of 6 left the Voth area after I watched them feed.

Maclean
1968

C. alpina

9 June — Ct. 2:20 P.M. - only 2 eggs in the nest. At 9:30 P.M. - still 2 eggs.

10 June — At 4:00 P.M. - 3 eggs and being incubated - saw the bird sitting and the eggs were warm.

Found two 2-egg nests today - both revealed by flight of attending bird. the first - about 300 m. NW of the above nest, on the E. slope of village ridge. the second - on the S. bank of Wohlslag slough, across from the CIRCEL wier. Marked both nests to return and steal the eggs when the clutch is completed.

(ca. 1600)

(ca. 2100)

Spent the evening along Elson bluffs, So. of Wohlslag. It looked like most alpina are in the laying stage now. the tundra has more nest scrapes than I have ever seen.

11 June — Again - more of the same. Looked for nest near No. end of traplines III A-B - without success. Nest 1 (No. of IV AB) and nest 2 (E. slope of village ridge) both had 3 eggs at 3:00 P.M. and 3:15 P.M. respectively.

12 June — At ~~2:00~~ 1:30 P.M. went to NEST 1 - now 4 eggs. Bird was off and away, so we went on to nest #2. Collected the incubating bird - apparently a ♀ - and the 4 eggs. Returned to nest #1 and did the same.

Maclean
1968

C. alpina

At 3:45 P.M. went to nest #3 - incubating bird left the nest, flew ca. 60 m. East, and immediately got into a tussle with a neighboring alpina - after ca. 45 sec. bird flew back - I shot it. the other bird followed partially. a third alpina came from the SW and engaged this bird in a fight, then both birds rose and displayed for prolonged period. I collected the 4 eggs and the ♀ I had shot and departed.

See summary of the 3 nests.

All 3 ♀♀ were heavy: 63.5g, 60.6g, 68.0g. this is more evidence that egg formation is not such a severe physiological stress, since the birds are free to feed as much as they need. this argues that this energy limitation is not the factor limiting Charadrii clutches to 4 eggs.

14 June — With Safriel and Pete - found 2 nests - each 4-eggs - between the new cake-eater and family creek. these nests are ca. 150 m. apart, and I think there is a third nest to be found 100 m. further.

18 June — the alpina display is just about over - only occasional bursts.

24 June — In the morning run of the traps a ♂ was found at about stake 8.6 of trapline X. In the evening run a ♀ was

Maclean
1968

C. alpina - nest summary

Nest # 1:

7 June -	9:00 P.M.	1 egg.
9 June	2:15 P.M.	2 eggs.
10 June	4:00 P.M.	3 eggs.
11 June	3:00 P.M.	3 eggs
12 June	1:30 P.M.	4 eggs - collected

#1:	12.7g.	
2:	11.4g.	Σ = 48.0g
3:	11.2g.	$\bar{x}$ = 12.0g.
4:	12.7g.	

♀ - SM 883 - 63.5g.

Nest # 2:

10 June -	4:00 P.M.	2 eggs
11 June -	4:00 P.M.	3 eggs
12 June -	2:00 P.M.	4 eggs - collected

#1:	10.9g.	
2:	11.3g.	Σ = 44.8g
3:	11.3g	$\bar{x}$ = 11.2g.
4:	11.3g	

♀ - SM 882 - 60.6g.

Maclean
1968

C. alpina - nest summary

Nest #3

10 June - 9:00 P.M. — 2 eggs

12 June - 3:30 P.M. — 4 eggs - collected

#1:	11.5 g.	
2:	12.1 g.	Σ = 48.2 g.
3:	12.1 g.	$\bar{x}$ = 12.05 g.
4:	12.5 g	

♀ - 68.0 g. SM 884

Maclean
1968

C. alpina

(24 June) caught but not injured at about the same place. A ♂ was standing on a mound ca. 5 m. away calling. I released the ♀ - she flew about 15 m. Immediately the ♂ followed and went into ground courtship, and another ♂ came from somewhere to enter into the action. Apparently the change following loss of her mate was so rapid as to make her conspicuous to other ♂♂. Both this ♀ and the ♂-presumed mate has well developed brood patches.

Calidris alpina

2 June — According to DWD there were quite a few birds of both sexes in the area on this date. He collected 4 near the gaswell. These are now SM 1010 - 1013.

4 June — Only a few birds in Britton's area. The rest of the tundra is 99+% snow covered, and no birds to be seen.

6 June — Saw 2 birds flying over Holmes' Moress. The only others were on Britton's area - a flock of ca. 20. I first saw two birds apart from the others. Collected 1 of these - SM 1015 - and found it to be banded on right leg: blue / 73-179206. Later collected 2 birds from the flock - SM 1014, 1016 - and one of these was banded on left leg: white / 73-179204. Both of these were banded on this area by Soikkeli last season ('banded as breeding adults').

Note in specimen catalog: of the 2 June birds, 2 are short billed, presumed ♂, but > 60 g. Of the 6 June birds, 2 are long billed, presumed ♀, but ≤ 60 g. Indicates that her condition has deteriorated markedly under the bad conditions, although the sample size

(6 June) is small.

9 June — With warm ~~bird~~ weather - many more birds in the area and display for the first time. Every bit of exposed tundra has some alpina, and there was a great deal of chasing about and displaying. Saw one flock of about 40 birds South of FAA. Collected 4 - SM 1020 - 1023

10 June — Quite a bit of display today, although some birds are still in flocks. Saw a nest-cup display, and a bit later 3 birds (I think not including the 2 involved in the display) were feeding quietly at about the same spot. Inland, where less tundra is exposed, territorial pairs are occupying small open spots and displaying.

11 June — About as yesterday.

13 June — Birds must have things pretty well sorted out, as display has dropped sharply. Birds are closely associated in pairs, and a number acted as if laying eggs.

16 June — On southwest extension of Gasline Ridge - a number of birds seemed to be unmated. Collected 4 birds - SM # 1047 - 1050. 1050 is a laying ♀.

Maclean
1969

C. alpina

23 June — A few birds displaying quite actively on Central Marsh, below west end of lines V & VI. Funny - haven't found a nest this year.

28 June — They are certainly not conspicuous, and may be less abundant than usual.

Mackeon
1966

Calidris ferruginea

13 June — Saw a lone bird feeding in disturbed ground by the side of Cake-Ester road. Flew, silently into trash of Cake-Ester and could not be relocated. Got a prolonged view at <20 m. — little doubt of identification.

26 June — Niko located a lone bird feeding very rapidly in meadow tundra East of Voth road, across from Cake-Ester site. Moved ca. 80 m. in 2 min. of feeding, then flew away silently to SW, and was not seen again.

Macleay
1967

Calidris ferruginea

15 July

Saw 1 bird in a flock of golden plovers, Pectorals, and red-backs on North Beach Ridge, just West of the road crossing. Bird was very red around head and breast, but most of venter was nearly white. Bird fed actively in the center of the flock and would not allow us to approach. Finally flew with the whole group.

Macleon
1967

Micropalama himantopus

7 July — Pitelka collected a lone bird found on his plot. Stomach:

5+ ad. tipulids - prob. tipula
(nothing else)

2 August — Collected an immature bird at shooting station - 8N 8W. Bird was standing in water of coastal pond which also contained phalaropes, pusilla, and a few alpina. It was feeding with the head going into the water - appeared to be jabbing into the bottom. Saved as a skin.

Micropalama himantopus
is now
Calidris himantopus
per AOU 1998

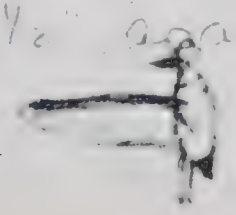
Waterton
1964

Tryngites subruficollis

11:30 A.M. - 3 birds feeding in wet marsh 10 ft from 3 pectoral. 1 raises wing, displays raised and waves one wing, turning body nearly 90°, so that wing going straight over head. Continues to see repeated.

1 raises short distance by 3 pectoral, repeats. Then goes upright, patrols part.

12:15 P.M. As then 5 birds on higher ridge - min. 3 ♂♂. Wing raising displays, wing waving displays - stand nearly upright, wings held out in front of body, head up, as in picture already here.



tail spread. Like "Ruckers" some.

Wing waving seems to be part of elaborate movement display. When this is done other birds often flee or assume aggressive posture - body horizontal, head and neck extended, square off - short run, [illegible] or together and run off. Entire group silent.

3 birds still in wet marsh 4 MCS. One in wing wave display.

Birds active on Burk Beach 1 in wing

Meeboo
1964

tryngites subruficollis

ans wing touch display (2 wing touch ca 20 times in 1 hr.). Show no fear of human approach to within 15 feet. Frequently jump 2 or 3 ft. legs hanging. while feeding & wing waving

1 June — 30 or so still in vicinity E of Mts. 1 seen on beach ridge ca 200 yds. E of microwave tower feeding near pectoral sandpiper, closer at one time. Other spaced out along beach ridge W of microwave tr. 200 or 150 yds apart.

± 1 mi — Appear to be abundant in local concentrations in uplands E of Teshekpuk. Across Creek from lake later 4 birds in association @ ca 100 ft from nest. One displaying actively, others passive. Two displaying ca 60 yds from others of 4. Others in vicinity. Another accumulation on polygonized plains E.. Little activity, too few on at one time to accurately estimate numbers.

Displaying ones jump to about 3 ft, legs hanging & repeated 4 times in 10 sec, then wing waved or stretched. Other ones with wing touch, then wing wave. Wing touch appears to be more frequent.

20 ± mi — Brooks Range.

Displaying ♂ 50 yds E of large inclosed L. end of Itkillik River. Displaying ♂ 1/2 way S E of Imnaks. Flight and rising

Mactan
1954

Transgrassed subterranean

1 flew across Talisay Plaza 2/3 of the
town (i.e. close to Sea end) from ridge top
Central Hard.

1 pair + 1 2nd row of stakes crossing plaza
1 PS 2 ♂♂ 1 ♂ 3rd pitch, near outer
3 ♂♂ circling 20 100 yds to SPOREL
but 1 dropped out headed to sea later
other 2 headed across yds apart
in row [illegible] yds apart [illegible] displaying.

2 along weak breeding S to slope
Back Trap [illegible] displaying group.
1 [illegible] near road.
[illegible] 2 of SPOREL [illegible]

22 June 1 ♂ 1 ♀, ♀ on gasline mesa, pairing
♂♂ occasionally displaying.

25 June
3 July 1 buzz on gasline ridge - flock of
7 ♂♂ pectorals. 3 times flock flew Bulf
Brass flew and landed with flock. Gasline
♀ or not.

5 July 1 [illegible] ♂: 5 [illegible]
[illegible] 2 were [illegible]
Evening quietly. 1 gave ring [illegible]
no response from others. [illegible]
1 of circled again landing 1 landing with
[illegible] on 2 wing. 1 [illegible]
through ca [illegible] than due [illegible]

- Hacker
1964

T. obscurohalli

6 July — dispersed. Went back for shotgun - returned - flock still dispersed from concentration ca. 100 yds. W of 3rd ditch - 4 birds in loose aggregation. Again observed ground chase - both birds collected. Aggressor - Hacker 262; chased bird Hacker 263. Both ♂♂. Aggressor has larger testes. No other activity of birds.

9 July — Gasline Ridge ♀ still sitting patiently. Will flush on distraction display. Neither bird seen on Ridge.

10 July — Saw birds on pitfall's T-bar, near stake 16. No others.

11 July — Nest on gasline ridge hatching at 3:00 P.M. Took 1 of 3 chicks out of egg (#282). Other egg cracked.

— 3 remaining chicks out of nest (10:00 A.M.) - about 30 yds. E. ♀ gave good distraction display.

18 July — ♀ with young along road to fertilizer plot, just beyond ridge 1 road. Could not count chicks. 1 collected - #292. Ridge is ca. 100 yds. away - vegetation on topography similar to black ridge, on smaller scale.

19 July — ca. 4:00 P.M. 1 adult w/ 3 chicks

Maclean
1364

T. subruficollis

on W side of Gosline Ridge, ca 250 yds N of Nero of trapline 1 - moving N. About ½ mile N of next cup catches 16 July - may be same, may be not. L. billiani [illegible].

Another bird on W. side of ridge, ca 150 yds S of above gave violent distraction display, but would not go back to nest. Stood preening on polygon for ½ hr, without any sign of broodiness, &c. May have been off hatching nest

20 July Returned - 2 00 A.M. to look for nest - no sign of bird, nest, chicks, or ruffin! May have completed hatching of nest or may have made ass of observer!

31 July 1 adult with 3 juvs. on Dibble's trap, stake 12. Juvs. on day 5 stage of wing - tail - willow covered. 1 juv collected (U 317) 35.6 grams. Almost ready to fly. Wonder where the heck Hague is!

3 August Diligent search of interior produced no birds.

10 August 3 birds feeding in grass near [illegible] Llewellyn's Wire. [redacted] They never had a chance. #328, 329, 330. All immatures, 2 more advanced than the other.

12 August 3 birds on my duty (14A 3 5) [illegible]

Maclean
1964

T. subruficollis

above (W) of Upper Mason Lake. 1 collected:

Group of 3 flying around O and of Pitelka's Plot (1 4A 35) 1 collected: # 345 - I mm.

1 on dry slope on S. side of P's Plot, ca. stake E.

13 August Group of 4 on beach ridge ca. 150 yds. S. of CCS. 1 seen feeding on lichen polygon slope - others on dry ridge top. 1 collected: # 347 - I mm.

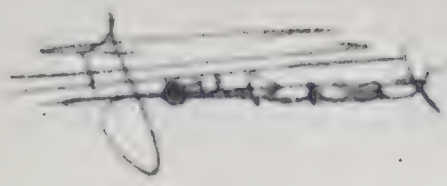
Group of 5 - 2 on P's Plot dry slope (1 4A 35). 1 collected: # 346 - I mm.

2 birds - S. slope P's Plot, ca. stake 6.

1 bird - (1 5A 4 5) - E. side of Wohlsleg Slough, ca. 100 yds. N. of road.

All birds were actively feeding in dry tundra. Why the sudden appearance and burst of feeding on previously abandoned ground. Could be new crop of adult ~~flying~~ insects. Does not seem likely that food source was always there, with no birds to exploit it. Somethings else at work

Macrae
1964



have taken advantage of it. Plan to try the Holmes' method of observing adult (surface active) insects. Next Summer will drop pit-fall traps.

Maclean
1964

Tregrites subruficollis - passing observations

22 June 010 ♂

11A	- 1	- 5 AB	- 3	- 4	½ min.
	1	- 4A	- 3	- 4	2½ min.

gaseline mesa.

012 ♂

11A	- 1	- 6A	- 3	- 4	2 min

030 ♂

4P	- 1	- 5A	- 2	- 4	4½ "
	1	- 6A	- 3	- 4	¼ "

shallow jabs: 2

23 June 052 ♂

10A	1	6A	3	3	2½ "

mos-rapin shallow jab. w/ micro ms.
ground display, then res-passing

24 June 091

4P	3	5A	3	5	¼ "

shallow jab.

27 June 110

5P	1	6A	3	5	5 "

peck + shallow jab

28 June 121

3P	1	4A	2	5	5 "

peck

127 ♂

4P	2	5A	3	4	1 "
	1	5A	3	5	1½ "

peck. w/ ♂128. horizontal gang bang.

Mackay
1964

T. subruficollis - feeding

28 June 128 ♂

4P	2	5A	3	4	1"
	1	5A	3	5	1½"

peck. with ♂ 127. horizontal gangbang with 127 + 1 other.

129

4P	1	5A	2	5	½"

peck.

29 June 158

11A	1	6A	4	4	2¼"

6 July 227

3P	1	4A	2	5	4"

231

4P	1	3A	3	5	3"
		5A	3	5	1"

Peck

Maclean
1965

Tryngites subruficollis

14 June

Lone bird seen by SE corner of Holmes' Morass - N side of mouth of Wahlsleg Slough. Feeding on dry, uplands type tundra.

Maclean
1966

Tryngites subruficollis

13 August — Found an immature (light underparts) feeding on dry North slope of gasline Ridge. Bird was first seen near the mound at the WEST end of the ridge. Worked SE along ridge inconsistently dry habitat, pecking in plover-like manner. Called Niko (via Tom) and he also saw the bird - we both followed it for ca. 250 m, then left.

15 August — Saw a lone bird on dry South slope of Wohlsdag Slough, just EAST of crossing. Watched it feed, then collected it. Stomach full of upland type things — mainly Tenthredinid larvae.

Maclean
1967

Tryngites subruficollis

17 June — Saw 2 birds flying about front lawn of Dale and Sadie Deskaks house in Barrow. Pitelka reports that many birds have moved into the area in the past two days - not like '64, but still a good number of birds with good activity.

18 June — Spent the day in the polygonized upland area East of Footprint Lake. There a number of scattered individuals were encountered feeding. Probably 4 different birds were seen. One of these did some wing-waving, but no other display.

19 June — 3 birds on Polygons North of Micro-Met. 1 displaying ♂ was giving arm-pit display and twice rose into an H. Display was consistently directed toward the west, but no other buffy could be seen. 2 others — presumes ♀♀ - fed quietly around the mound on which the ♂ stood. Finally the ♀♀ came together and stood quietly in a polygon trough and the ♂ came down and stood quietly on a slight mound above them. ♂ has only 1 functional leg.

2 other buffies were feeding

Tryngites subruficollis

19 June — in Micro Met Marsh ca. 200 m. WNW of the above. Probably these relate to the directionality of the display of the ♂ above.

Later failed to find any on the bluffs and high area between Barrow and Nunivak Slough.

20 June — Saw 1 bird displaying from the road to Barrow, just W. of the Navy communications wanigan.

21 June — Saw none on P's census plot. On Gasline Ridge (ca. 2200) found the peg-leg ♂ from Micro-Met (♯ 19 June) feeding there, but apparently unsettled. No others in the area.

22 June — Spent most of the evening photographing a ♂ in the Drum area. this was the "central ♂" of FAP's notes. Display was limited to a small area but occasionally it made wide flights over large areas to the WEST and SE, but always returned after a few minutes. Display involved much wing waving - directed toward other birds when they were in sight, and twice conspicuously directed toward me. Also gave H display accompanied by tick-tick... note. got good (I hope) pictures of this tore and aft, as

Tryngites subruficollis

[22 June] well as much wing waving. Shot 1 roll Plus-X and 1 roll Hi-speed Ectochrome.

23 June — Saw the Central ♂ embrace another bird (probably the East ♂) in an H as I passed through the Drum area (without the camera, darn it). Bird then walked out of the embrace, but display did not develop further. Embraced bird then flew away toward the SE.

Another bird was feeding on upland area between Family Lagoon and Micro Mer, and a 3rd bird S. of this ca. 200 m.

In the afternoon saw a single bird cross Voth Road where it crosses the Beach Ridge.

Saw none on Village Ridge.

24 June — Saw none along entire extent of Beach Ridge, seen in passing from Owl Nest to S.B.R. tangle/pot site, with several stops en route.

25 June — Saw a ♂ displaying in the Drum area near longspur nest # 15 - wing waving directed to South. No others in sight.

Maclean
1907

T. subruficollis

13 July

Meade River, Alaska

Found a bird attending two small chicks near the donkey engine, ca. 100 m. SW of the coal mine shaft. Young looked about 3 days old. Attending bird (there was only 1, presumably the ♀) did much wing-waving and came quite close, but no "rodent-run" type distraction behavior. Birds were in elevated, but not ridge or extreme upland, tundra. Saw them coming and going, and both times activity was focused around small willow patches. Photographed & collected one of the young, but did not collect. The record is interesting geographically and in timing as well. The activity there must have been earlier than Barrow for young to be out already.

Macrae
1968

Tryngites subruficollis

26 May — Saw 1 lone bird, then 1 in a mixed flock with 2 pectorals and 2 bairds, then a flock of 5 near 2 bairds - all on dry, upland ridge tundra. the group of 5 was on very dry, sparsly vegetated tundra in a high saddle. Saw these very close.

28 May — Several sightings again today. I saw a lone bird, then a group of 3, then 2. One of the 2 was waving its wing at the other approx. 1 m. away. Not an intensive display. the ptarmigan counters saw at least 2 in the Porcupine Dome area.

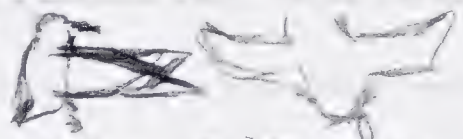
~~1 June — At Barrow: found 2 birds keeping in an area near red-backs on the Beach Ridge. Collected 1 - a ♂ - about 86 grams.~~

15 August — the first sighting of the year at Barrow: a lone bird keeping on highest part of Beach Ridge, just East of the crossing.

Moehea
1969

Tryngites subruficollis

9 June — FAP saw at least one and probably more fly over the Drum Area.

11 June — Just after we reached Britton's Area in the morning 3 birds flew in from NW and landed near another bird ca. 80 m. from us. One of the birds began wing-waving, and, after ca. 1 minute, rose into the H display  . the others moved in and the displayer enveloped at least 1 of them, with another very nearby. this was repeated, and then the sequence was completed as the displayer prostrated himself and 2 of the others got onto his back. the birds then flew away towards the south. FAP and B. Berry also witnessed this display, and Bill made some excellent sketches.

Mackea
1964

Limnodromus scolopaceus

5 July ♀ Collected by tenaza near Hexawik. Stomach saved (RT-183). 127.5g - fat moderately heavy; lg. fol 4mm.

Maclean
1966

Limnodromus scolopaceus

15 August — Saw the first birds of the fall influx this morning. Went to lines XIII + XIV, then walked to edge of Oakpik Slough. Saw 2 dowitchers flying with cd. 15 (immature?) red backs. Later saw a flock of about 12 dowitchers. Both groups flying very actively - never seen on the ground.

Maclean
1967

Limnodromus scolopaceus

30 July — the first bird of the year - a single immature jabbing along edge of pond at Tanglefoot site I. Bird was occupying a pond with 2 melanotos, and flew with these when startled.

14 August — the absence seems worthy of note. None in Central Marsh or Holmes' Morass.

15 August — Spoke too soon. Tom brought one bird in from a flock in Central Marsh.

In the afternoon drove into Hewick - saw several individuals, a group of 3, and a group of 5.

16 August — Again - birds were present near FAA and also across Family Creek.

17 August — Still none in Central Marsh or along W side of Holmes' Morass.

18 August — Several groups flying actively about area around lines III A-B.

19 August — Very abundant in mossy ponds from camp to Brownerville. Many birds in the area. they are all in hundra, not coastal, ponds - an important separation. they make use of the long beak - jab-jab-jab-probe-jab-probe - ca. 3-4 motions/sec.

20 August — Again - many birds around FAA, but hard to see in tall grass and poor light. Finally took one on the wing

Macleay
1967

Limnodromus scolopaceus

[20 August] from a flock of 6 - 8 1 8 3 1.

21 August In the morning - a flock of ca. 8 encountered by traplines IV A-B. Others heard and seen flying in the afternoon.

In the afternoon - collected a ♂ and a ♀ from a flock of 15 birds in a pond S. of Smith Puk. Nearly identical in weight - both light for - but ♀ has much longer bill.

Others seen in Holmes' Marsh - flock of 20 feeding in and by a pond and in Central Marsh. The majority of birds are in ponds away from the marsh.

22 August Birds were very dense around ponds near traplines III A-B. Took a pile of feeding observations and collected 1 bird - S/1 838. Birds were in flocks of up to ca. 18; after red-backs, the most common species.

Macleay
1968

Limnodromus scolopaceus

15 August — Saw the first of the year today - 3 birds flying overhead at the N edge of camp, by the ocean. We have seen more on the tundra - which is surprising.

18 August — Spent the whole day walking the tundra, including transects at all traplines, and finally found one flock of 10 birds in a pond in an unused weasel road - East side of Central Marsh.

19 August — Made the tanglefoot circuit without seeing any.

20 August — Saw one - maybe two - by trapline I, then all the way out to far SOD sample site at Elson Bluffs and back without seeing any others.

Maclean
1969

Limnodromos scolopaceus

13 June — So. of 10th Crossing, East of Caswell Road - heard display clearly very close to me, but could not locate the bird(s). Pitelka also saw these today.

20 June — Was out just south of the above area and collected a pair feeding together at a pond margin. FAP put these up the ♂ has brood patches and the ♀ had laying eggs; good chance that they bred in that area.

24 June — 2 birds were over trapline IX and I in the afternoon, with one of them displaying.

25 June — 2 dark birds flew over the Beach Ridge from the area of CACS.

Macheon
1969

Lobipes lobatus

9 June — Both FAP and Norton saw these today.

10 June — Saw an lesser 1 on Britton's area, flying with red phalaropes.

13 June — A persistent pair on South end of Britton's Area.

19 June — they are still there. I think all that remains is to find the eggs.

27 June — Saw several of these mixed in with reds on footprint lake. Pitelka found a nest - in Central Marsh, I believe.

6 July — Hawes collected an incubating ♂ from Central Marsh - probably from Pitelka's nest.

Lobipes lobatus
is now
Phalaropus lobatus
Per AOU 1998

Machan
1964

Phalaropus fulicarius

26 June — Nest (4 eggs) in wet marsh near pond between micro-met and gasline ridge. Eggs collected.

Nest (4 eggs) – top of gasline ridge – wet marsh 10 ft. S of small kidney-shaped pond, N W of stakes grids area.

29 June — Nest - 4 eggs - polygon ca. 120 yds W. of N. micro-met bldg. Shallow depression lined w/ lichens.

9 July — Saw flock of ca. 60 birds moving erratically over Central Marsh - alighting and flying actively.

14 July — 1 ♂ Chick seen along pond edge N E of Pow Main.

Mackay
1964

Phalaropus fulicarius - [illegible]

2 July 181 ♂

	IIA	5	4	4	1	1/2"

182 ♂

	IIA	5	4B	4	1	3/4"
	"	"	"	"	"	1/4"

14 July → 275 ♂

	4P	5	4B	4	1	1"

Mackean
1966

Phalaropus fulicarius

16 June to 19 June

At Meade River - Density was about equal to Barrow. At this time they are easy to collect, and a sample of 8 was taken. 5 ♀♀ showed very good laying synchrony - 4/5 on 3rd or 4th egg, 5th got fouled up somewhere along the line. If ♀♀ do not remain there and flock after finishing clutches synchrony would appear greater than it actually is. Saw no flocks of ♀♀.

20 June

Pairs frequently encountered in ponds among polygons West of Lake-Esker. If they utilize all habitat as densly as this it won't be a disasterous year. Birds are mostly feeding. they obviously use visual clues, and the return as indicated by frequency of feeding motions during active search seems low. (Not, methinks, as low as Meade River, where they were really working for a meal.)

In ponds South of Gasline Ridge - nothing. Guess they won't utilize habitat uniformly. Thar should be a good area.

21 June

In Voth Area South of creek - saw ♀♀ phalaropes beginning to associate. Saw a group of 4 flying

Mackean
1966

P. fulicarius

together; killed one and found 4th egg in oviduct! Another ♀ on ground within 50 m. of 2 others, no ♂ in sight - also about to lay 4th egg. a ♀ killed by eskimo kids — 4th egg in oviduct. Indicates: (1) Maybe there is something to this synchrony; and (2) - ♀♀ begin to associate before clutches are complete. Interesting.

22 June Density inland is about as coastal — certainly no greater. Saw pairs and small groups of ♀♀ feeding actively. Collected a ♀ w/ 4th egg in oviduct, a completed ♀, and a winter plumage neuter (could find no gonads). Interesting to speculate on migratory flights of neuter, in absence of (gonadal) hormone stimulation - probably just follows the group. Stomach of this bird contained 339 small Chironomin larvae.

~~[illegible]~~ Also found a ♂ in attendance on a 2 egg nest at South end of S. Footprint lake. This completes the story: ♂♂ in attendance on incomplete clutches; ♀♀ associating before laying is complete. These birds are really weird.

Mackea
1966

P. fulicarius

24 June — Saw frequent small groups of ♀♀ on Holmes' Morass. This area is still very wet — probably v. few areas dry enough for nests. More likely just pre-departure feeding and staging area.

25 June — Frequent ♀♀, mostly feeding alone-along gaswell road. Associations are loose — birds fly together, but mostly feed on separate small ponds.

26 June — Same impression along same road. They are not using footprint lake to any significant degree, as frequently seen in previous years.

29 June — little suitable habitat except for swales West of village, along Nunivak Slough. Birds were not commonly seen, but I doubt that this area ever supports a large population.

1 July — Groups of ♀♀ are scattered over Holmes' Morass - 2 to 6 or so - mostly feeding actively. No large groups yet, nor the kind of active flying indicative of eminent departure.

Same impression in wet area East of Village Ridge.

3 July — About the same thing in Holmes' Morass - possibly becoming a little

Maclean
1966

P. fulicarius

more active.

4 July — Not a bird seen in Central Marsh. Wonder why.

5 July — Collected 2 ♀♀ from group of 5 feeding in Holmes' Morass. Both larg. fol. 1mm, and far accumulating.

Phalaropus fulicarius

#1 14 June, P.M. 4 eggs. West of mouth of Voth Slough along [illegible]

#2 20 June, c. 4 P.M. 3 eggs. Elson lagoon

#3 29 June, 11:45 4 eggs. Pitelka's Plot

#4 30 June 15:00 4 eggs Between North & South Meadow lakes

#5 2 July 2000 4 eggs on road before IV A & B

#6 5 July 16:00 4 eggs Beach Ridge along road.

#7 6 July 10:00 4 eggs P.S. Plot between Stake 5 & 6.

#8 7 July 15:30 4 eggs W. end of line X

#9 [illegible] July 11:11 4 [illegible] 1/4 m N of P.S. plot

#10 11 July 17:30 4 eggs 1.30 m N of P.S. plot

Phalaropus fulicarius - check

23 June #1. 4 eggs present, ♂ not around. N.V.

27 June #1 4 eggs Nest deserted? N.V.

7 July #1 - young, 2 still wet at 15:00 N.V.

#3 4 young, all dry at 21:00 N.V.

#7 4 eggs at 21:15 N.V.

8 July #[illegible] 4 eggs at 17:[illegible]

11 July #8 fledged at 09:[illegible]

#7 - 4 eggs 17:00 N.V.

#6 - 3 dry young, one egg N.V.

12 July #7 - 4 eggs [illegible] N.V.

#9 - 4 eggs - N.V.

#10 - 3 eggs, 1 wet young. N.V.

14 July #7 - 4 eggs N.V. at 1:15

#9 - nest empty, fledged

#10 - nest empty.

#4 - went to the nest but could not find it.

15 July #2 - fledged; 1 egg not hatched.

Mackey
1967

Phalaropus fulicarius

8 June — the first of the year - P1 sighted a group of ca. 25 flying W-E over the plot. they then sat down in Holmes' Morass.

9 June — two birds flew over W Beach Ridge towards Central Marsh, but not interested in stopping.

In the afternoon 3 birds flew over across area.

10 June — A group of ca. 12 birds was feeding in flooded low polygon centers in Voth area, just S. of FAA. Obviously visual feeding - pecking singly in water. All doing the same thing - could have repeated feeding observations at museum. Amazingly tame little birds.

Returned in the evening - 5 birds were there. We collected them all - 3♂♂ and 2♀. Also picked up a dead ♂ that has the brain eaten out. Diet was dominated by Pedicia larvae - 1 ♀ was full of them. a few tipulids appeared in 2 stomachs.

One of the females has recently completed a clutch - 4 ruptured follicles - largest ovum 5 mm. It must have been elsewhere - this area hasn't been open for 4 days, but the oviduct was greatly distended and last ruptured follicle loosed

like it was a recent event. None of the
[illegible] showed development of brood patches.
Other 9 had ova to 11 mm.

12 June Discouraging — I had expected more
to move in. A few, scattered, pairs in
the area discussed above. None in the
flooded area East of Village Ridge, nor in
the melt ponds on the Ridge.

13 June More birds are moving in as
area is exposed.

Macleon
1968

Phalaropus fulicarius

3 June — Saw the first of the season - several individuals flew past us on village ridge (I didn't pay them much attention).

4 June — A number of birds - perhaps ~~12~~ 12 or so - on the ground near the gaswell. Not much breeding activity - birds were feeding around pond edges or by spinning on pond water.

7 June — Still a group by the gaswell, but very few elsewhere. the phalarope ponds have yet to appear.

10 June — Birds are dispersing along open area by Elson Bluffs, So. of Wohlslag. Probably 10 pair spaced out linearly over ca. 1/2 mile.

12 June — In the above area found a 3-egg nest with the ♂ attendent. I doubt that there are many nests in other places.

15 June — the snow finally broke and birds are dispersing over the tundra. Saw many birds in the flooded part of Central Marsh, and pairs along all of the trapline transects. there must have been a movement into the area - we haven't seen this many birds waiting for the area to open up.

Was again impressed by the range in plumage. One bird that was less than 33% into breeding plumage seemed to be paired with a full breeding plumage ♀. Shows

Maclean
1968

Phalaropus fulicarius

15 June) collect some of these to see if the gonad is up. the obvious thought is that the difficulty in controlling the pre-nuptial molt is related to the sex role reversal. must reread Höhn.

Macleay
1969

Phalaropus fulicarius

9 June — Suddenly - like everything else - they are here and active. Mostly flying about in small flocks and mixed with other species.

10 June — About the same. Most of the tundra is not nearly ready for these.

11 June — they are moving in in some abundance. Has no trouble collecting 6 for tom Cade on flooded area just South of F.a.a.

16 June — they have become quite abundant. I look for a good breeding year. they are moving out in pairs onto the newly available melt ponds. Saw one large pond with 16 birds on it, flying out and back in pairs.

Maclean
1964

Stercorarius pomarinus

10 June — Occasional scatters in diviuals seen - total of 10 light phase, 2 melanistic. (on Beach Ridge, Garlic Ridge, Voth area). territorial defence seen once, heard once - both over Voth area.

13 June — 1 seen in 1½ hrs. observation around Fresh Lake.

15 June — Pair seen over fresh lake marsh. 1. chases L.t. Jaeger over Drum area and immediately N.

17 June — 1 flew over marsh E. of AACS, with no apparent intent of stopping. Continues on over mouth salt lagoon.

18 June — tritorial pair in marsh just beyond gas-line. One bird sitting on mound, other flying. Drove off passing Pomarine, then flew back and landed 3 ft. from bird on mound. Assumes low, bony horizontal posture and circled bird on mound, bony "bobbing" up and down ~~[illegible]~~. Completed 3/4 circle in ca. 15. sec, then flew away.

1 July — Nest of above pair checked - 2 eggs. Strong defence by adults.

14 July — PJ-4 and PJ-3 - both along S edge of Holmes' Morass, < ½ mi. apart. 2 eggs each.

23 July — PJ # 1 - below Garlic Ridge - Patches

Mackean
1964

Strorarius pomarinus

out. 2 juveniles were living in tall grass along nearly dry pond - covered with dense gray down. About size of Calif. Quail - but hard to say due to heavy down.

24 July — Nest #3 = only one bird in area, giving alarm calls, but not intensely. (Both birds were seen 21 July harassing Peregrine Falcon). No sign of other adult or juveniles.

Nest #4 - both birds actively calling and defending. Empty egg shells near nest but no sign of juveniles. Nest defense much more intense than pair # 1, with large juveniles. Probably younger juvs.

31 July — Saw 1 juvenile with pair #4. Larger than juveniles of Pair #1.

Pair #2 — Killed by Eskimos. Left on tundra. No sign of juveniles. 1 not too bad - taken. (# 315)
♀. Other - head taken.

Maclean
1965

Stercorarius pomarinus

26 May — Sussex arrival - ca. 50 birds seen, either sitting quietly on snow or exposed tundra or flying over tundra. Do not appear to be pairs, although there is some association into twos. No interaction with owls or intraspecific conflict seen.

28 May — Appear to be more common and are definitely dispersing, although no territorial conflict seen yet. Birds mostly just sit - either on snow or on exposed mounds.

30 May — Territorial encounters seen for first time. Birds are pairing off, and both birds of pair seem to take an active part in setting up territories.

5 June — Seem to be on territories, sitting fairly quietly.

Maclean
1966

Stercorarius pomerinus

3 June — 1 flew high and straight over Beach Ridge, towards Elson Lagoon. Intermediate phase – looked not unlike a ♀. No sign of intent to stop when bird out of sight.

10 June — 5 flying over Holmes' Morass. I went down and others quickly followed. Appeared to scrap over something on the ground. After ca. 1 min. took off again and flew on to SE.

Maclean
1967

Stercorarius pomerinus

5 June — Saw roving bands over most of the exposed grounds. Tom Cade reports that this is about the first day they've been around. As usual, they arrive synchronously.

8 June — Many birds in the area, and they are beginning to act territorial. Saw one encounter fiercely, and heard other territorial calling. Saw 1 copulation attempt by S. end of Beach Ridge.

9 June — Birds are frequent and territorial along W. Beach Ridge. Much sitting and loafing. Karl and I saw a pair pursuing a pair of snowy owls W. of Mirro-Mat.

10 June — Birds are same in Jaeger Area W of Mirro-Mat.

More in Yeh Area - many birds - some hunting, but mostly just sitting.

12 June — Little Range - many territorial birds around. Saw a flock of at least 10 birds - 1 v. dark melanistic - just sitting quietly on Village Ridge.

Maclean
1969

Stercorarius pomarinus

9 June — Saw about 4 lone birds cruising over the area.

10 June — Not a one today.

11 June — 2 birds - 1 melanistic - flying quickly across the tundra.

16 June — the first territoriality that I have noted: a bird on SW extension of Gasline Ridge was area to West. It is covering a very large area. Lemmus sign in the area is quite good.

Maclean
1964

Starcerius parasiticus

14 June — Pair - both melanistic - flew over E. Drum area.

15 June — Same pair seen over marsh S. of AACS.

16 June — 1 flying over N. Beach Ridge slope toward family lagoon

Maclean
1964

Stercorarius longicaudus

15 June — Appears for first time today. Pair flew over Drum area - 12:15 P.M. - attacked and chased by ruddy turnstone.

1 chased by Pomarine over ~~[illegible]~~ drum area and immediately N.

8 different (?) birds seen.

16 June — 2 birds seen (each alone).

4 July — Flock of ca. 17 in central Marsh. 2 collected (Maclean 257, tenuza)

6 July — Scattered small groups - (2 to 5) in central marsh. Total of ca. 15 observed. 1 first year bird collected.

7 July — Central Marsh over-run! Total of ca. 40 seen - in groups of 3 to 10.

8 July — groups of 3 and 2 flew over beach ring, flying west. Others seen in central Marsh.

10 July — Flock of at least 60 in central marsh.

Stercorarius longicaudus

9 June — Saw two birds flying over and surveying Voth area.

Maclean
1767

Stercorarius longicaudus

5 June — Saw a long bird flying NE 11 beds near N.B.S.

Maclea
1965

Larus hyperboreus

17 May

Flock of ca. 40 near carcass of butchered whale on ice by lead. Mostly floating on water 150 m. out, but ca. 10 flying over whale and calling.

Maclean
1964

Xema sabini

25 June

Nesting colony along edge of small lake just SO of Heroaik, and along islands in lake. Lake ca 100 x 150 yds, located in wet marsh. nests at edge of water - min. distance ca. 40 ft. total of at least 7 nests. 7 Black brants (2 possibly resting) in same lake.

Mackay
1964

June 25

Sterna paradisaea

Ca. 5 pairs seen inland around Hraunsink. One collected - Mackay 238.

MacLean
1966

Cepphus grylle

15 August — Merle Solomon reports that he and Joe Algeak found a nest in an old oil drum near the point. He said both birds were flying around the drum as they checked it.

17 August — Went up to the Point in Merle's umiak. Found the drum about 100 feet from the lagoon and 200 m. South of the Point. Drum was on it's side, half submerged in gravel, with one end knocked out. One bird left as we approached and landed in the lagoon - definitely this species. the single egg was sitting on bare sand well back in the drum. Photographed the drum and tried a time exposure of the inside. the other bird joined the previously incubating bird in the lagoon. At the same time at least one and probably two more were (was) seen on the ocean side of the spit.

22 August — Pete Soualik tells of another nest - this one with two juvenile birds - under the wrecked home on the way to the Point, ca. 3-4 miles South of the above.

1 Sept. — Charley Brower shot the adult birds from the nest at the Point.

Maclean
1966

Ceppheus grylle

Harry Brower said he would try to get the carcasses and put them up for A.R.L.

Maclean
1964

Nyctea scandiaca

17 June — 1 flying West over Central Marsh.

18 June — 2 birds perched ca. 1/4 mile apart on polygon mounds over wet, flat marsh, SE of gasline ridge. Flew as I approached within 150 yds..

20 June — 1 on Pitelka Plot

22 June — 1 on Cemetary Ridge, W. of AACS.

23 June — Still there.

6 July — Almost got one of the beach ridge, near micro-met!

Maclean
1965

Nyctea scandiaca

To recapitulate before beginning actual notes: a number of owls remained over winter. Here was a drop in numbers in September to reach a fairly stable number - most of winter there was 1 around micro-met, 1 on E. Beach Ridge. Numbers seemed to hit lowest point around January. In February reports from natives, water wagon, etc. seemed to indicate numbers picking up, although I went to Umiaqvik and back in February and saw only one. In March the numbers made a ± sudden increase. Here was an aggregation around Oakpik Slough, another group reported near Village. Through April and early May birds dispersed and numbers seen in immediate area went sharply upward. By 1 May they were considered very abundant, and numbers continued to increase. By first good melt in mid-May birds were well dispersed.

14 May — Weaver reports nest w/ 2 eggs near North Meadow Lake. Amazing. In search of available literature, this is earliest record found.

16 May — Cleckes nest - now 4 beautiful off-white eggs. Nest is in shallow cup consisting mostly of snow on

Maclean
1965

Nyctea scandiaca

sharply rising polygonal mounds ca. 4 ft x 3 ft.. Mound has thin covering of recent snow. ♀ left when I was ca. 100 m.+ away, did not return until 200 m. beyond.

23 May — Nest now has 6 eggs. 2 pairs on Beach Ridge between micro-met and C&GS. 4 owl-killed lemmings lying on mounds - 2 on one mound, 1 ca. 50 ft. away, 1 ca. 100 ft. away. Others seen occasionally along ridge. Remains of 3 dinners seen - once just back half of lemming eaten, once all but intestines, once just about all!

26 May — Conditions essentially unchanged. Nest now has 7 eggs.

28 May — Observed courtship at E. end of gasline ridge. ♂ flying over in very "bumpy" ⇒ flight hooting. Came down on mound and gave Dracula display w/ tail cocked. Rotated slowly (ca. 1 rev. / 10 sec.) while in this position. ♀ didn't seem too impressed, but watched me.

Macleay
1967

Nyctea scandiaca

5 June — Heard reports of numerous owls in the area, including 1 spending much of the winter near NBS.

Saw a ♀ on P's plot and a ♂ along NE shore of Honeybucket Lagoon. Case reports 2 nesting attempts — 2 egg nest at W end of Beach Ridge, 6 (? I think) egg nest S. of that about ½ mile. Found that the visiting German photographer had erected a canvas blind near the latter, so I left it undisturbed. A ♂ was sitting on the large mound on W. Gasline R.

8 June — Many birds in the area. Found the 2 egg nest - now 3. ♂ came over and copulated as soon as we flushed the ♀, then both perched by S end of honeybucket Lagoon.

Photographer's blind still by W Gasline nest. ♂ on Gasline mound probably belongs here. Another pair - v. suspicious further East on Gasline R. ♂ seen in "Moth flight" and Dracula Display - twice with lemming in mouth. They are either laying or about to start. Other singles and pairs scattered around the area. But the scarcity of lemmings is puzzling. 3 egg nest has 1 lemming.

Maclean
1967

Nyctea scandiaca

9 June — More lemming sign has been revealed by melting snow. Owls above as before - territorial and frequently paired. A persistent pair in the Drum area; Pair #1 w/ 3rd nest was harassed by a pair of jaegers.

10 June — Pair #1 now has 4 eggs.

Maclean
1964

Asio flammeus

15 June — I flew from gas-line ridge when disturbed. Flew over middle salt lagoon, and landed in Drum area. (5:00 P.M.)

17 June. — (11:00 P.M.) am flying over fresh lake. that wasn't gas-line ridge, but wherever it was, he was there again. (near trap lines 9 + 10)

18 June — here again.

Maclean
1965

Asio flammeus

23 May — One bird on Beach Ridge, 250 m. W. of C&GS installation. Sitting quietly.

26 May — Still there.

28 May — No sign of above on Beach Ridge. No others seen.

11 June — One in Drum area, near S. ends. Approximately same place as one seen latter part of last summer.

Machrea
1969

Asio otis

9 June

Saw one on the exposed patch SE of Voth Area and West of Gasline Ridge.

Maclean
1968

Calcarius lapponicus

16 May — these are very abundant in the uplands areas here. they appear to be but recently arrived - some ± settled ♂♂ squabbling over territories and chasing any ♀ that happens by. Flocks are still moving through - up to 50 in a flock - appear to be more ♂ than ♀. Some song, but no fully developed (i.e.-several songs in succession in a single flight). Most of singing is still from the ground.

17 May — In the early morning saw many birds fluffed up along the road - not too much activity. Later birds were more active. Saw flocks of ca. 60 and 120 birds - mostly ♂. Not much interaction among flocking birds, but settled birds displayed actively after flock moved through. the flock of 60 spent at least 2 hours on the hillside NE of camp.

Maclean
1964

Plectropterus nivalis

14 June — Copulation seen on top of telephone pole outside lab. (ca. 7:30 P.M.)

15 June — (4:00 P.M.) Observed copulation by fork in gas line. ♂ holding tail region of ♀ in bill, pulled around area 1 ft. radius. ♂ let go - ♀ moves ca. 1 ft away - assumes receptive posture: tail held up, wings down, head and body down - .

Ca. 5 sec - ♂ hopped on, flutking wings. Remained ca. 6 sec, hopped off. ♀ assumes very rigid, contorted posture - wings DOWN, tail up, neck and head turned and pointed up. . Held rigid while ♂ "danced" in very upright posture around her. After 10 sec, hopped on briefly (3 sec), then off and resumes "dancing". 10 sec. more ♀ moves 8 ft. away to feed (still moving strangely). ♂ began to feed.

S. MacLean

1964 - 1968

Species Accounts:

Mammals

Maclean
1964

Lemmus trimucronatus

10 June — Extensive cutting in localized areas along Beach Ridge, Gasline Ridge, Voth area. 7 nests found - no reaction or embryos. 3 animals seen - 2 under snow banks, 1 in tunnel in high-center polygons of Voth area. Most extensive cutting in troughs between polygons of Voth area.

13 June — Presated winter nest found on flat, mesic tundra without significant amount of winter cutting. No other nests around.

15 June — Area of ca. 1.5 acres in marsh S. of AACS - extensive cutting, runways. 5 winter nests w/ much fecal material - none presated, no animals seen.

17 June — 1 in polygon along line 9+10.

19 June — 6 unpresated nests; 1 presated in low, marshy, wet tundra.

20 June — 3 unpresated nests.

22 June — 4 unpresated nests.

Macleen
1969

Lemmus trimucronatus

9 June — the area exposed to date shows little sign and no nests. there are no owls or jaegers in the area. I think we had better give up our ideas about a high.

10 June — the melt is revealing low polygon troughs with more sign, including up a few nests, in Britton's area.

12 June — of 4 nests examined in 5, 1 has been predated. that has the cranium and intact abdomen of a ♀ Lemmus - pregnant, with 20 mm. embryos - 4 in left horn, 2 in right horn. also found a ♂ Lemmus dead - apparently trapped in a runway by collapsing slush.

13 June — Began systematic lemming nest census today in Britton's Area. See nest record on separate sheet. the level of predation was high.

Maclean
1964

Allopex lagopus

25 June

1 seen on Holmes' Hkroark plot.
Molting into summer pelage - large brown
~~spot~~ at flank.

Macleod
1966

Tipula carinifrons

8 July — Adults appeared today on Tanglefoot strips.

SW of village - flies were frequently encountered, and a random sample of 55 - mostly this species - was collected along upland ridges. Best collections were on owl and fox mounds with much reli

eggs: 189, 353, 357.

6088 4